

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

AUGUST 15, 1951



*Viburnum Rufidulum*

**SEEDS**

TREE—SHRUB—PERENNIAL  
FLOWER—GRASS—VEGETABLE

**HERBST BROTHERS**

92 Warren St., New York 7, N. Y.

Correspondence with seed collectors and growers invited.

Free catalog "Seeds for Nurserymen."

UNIVERSITY OF CALIFORNIA  
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COLLEGE OF AGRICULTURE  
DAVIS

# PEONIES

We offer our usual fine grade of 3 to 5-eye divisions; clean, healthy and strictly true-to-name, from plants not older than three years. As we do not use our fields for commercial cut flowers, you can depend on thoroughly rogued stock and fine young plants. Available after September 15.

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	Per 10	Per 100		Per 10	Per 100
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<b>Alexandre Dumas</b> (7.1). Crown type, brilliant pink, large compact, bomb shape, fragrant. Late. ....	3.50	30.00	<b>Mabel L. Franklin</b> (9.0). Brilliant rose-pink shaded salmon. Midseason. ....	5.50	50.00
<b>Avalanche</b> (8.7). Large, free-blooming, fine white. Late midseason. ....	4.00	35.00	<b>Martha Bulloch</b> (9.1). Soft rose-pink shading to silvery shell pink on the outer petals. Late. ....	6.00	55.00
<b>Duchesse de Nemours</b> (8.1). Pure white. Early. ....	4.00	35.00	<b>Mme. de Verneville</b> (7.0). Large white flowers with crimson marks. Early. ....	4.00	35.00
<b>E. C. Shaw</b> (9.1). Old rose, with flesh-pink tones in center and occasional red edges on outer petals. Double type, large. Late midseason. ....	5.50	50.00	<b>Mme. Ducler</b> (7.9). Bright silvery-pink with a shade of salmon and silver reflex. Midseason. ....	2.90	25.00
<b>Edulis Superba</b> (7.6). Bright, clear mauve-pink. Early. ....	3.20	28.00	<b>Mme. Jules Dessert</b> (9.4). Creamy-white with faint tints of pink and buff. Midseason. ....	6.00	....
<b>Elwood Pleas</b> (8.7). Very delicate pink; or white, tinted pink. Very large, flat flowers. Midseason. ....	4.00	35.00	<b>Mons. Jules Elie</b> (9.2). Lilac-pink shading to deeper rose overlaid with a sheen of silver. Midseason. ....	4.50	40.00
<b>Felix Crousse</b> (8.4). Brilliant, ruby-red. Midseason. ....	4.00	35.00	<b>Officinalis Rubra</b> (8.6). Large blooms of vivid crimson. Very early. ....	5.50	50.00
<b>Festiva Maxima</b> (9.3). Pure white flecked with crimson. Early. ....	4.50	40.00	<b>President Roosevelt</b> (8.5). Very fine brilliant red. Midseason. ....	4.00	35.00
<b>Floral Treasure (Delicatissima)</b> (7.5). Clear, even pale lilac-rose. Very free-flowering. Early. ....	2.90	25.00	<b>Prince of Darkness</b> (7.5). Deep red, almost maroon. Early. ....	4.00	35.00
<b>Francois Ortegat</b> (6.7). Semirose type. Large deep crimson with brilliant golden-yellow anthers. Fragrant. Midseason. ....	3.20	28.00	<b>Queen Victoria</b> (7.2). Pure white. Early midseason. ....	4.00	35.00
<b>Frances Willard</b> (9.1). Exquisite blush changing to pure white. Late midseason. ....	5.00	45.00	<b>Rachel</b> (7.9). Bright garnet shaded ruby-red. Midseason. ....	4.00	35.00
<b>Fulgida</b> (5.7). Semirose type. Ruby-red. Late midseason. ....	3.50	30.00	<b>Reine Hortense</b> (8.7). Rose-pink flecked with crimson. Midseason. ....	3.50	30.00
<b>Georgiana Shaylor</b> (8.9). Large double light rose-pink flowers, paler on back of petals, fragrant. Late midseason. ....	4.50	40.00	<b>Sarah Bernhardt</b> (9.0). Appleblossom-pink with a silvery edge on petals. Midseason. ....	4.50	40.00
<b>Grover Cleveland</b> (8.2). Dark crimson. Fine flower, upright stems, medium height. Extra-good for garden effects. Late. ....	4.00	35.00	<b>Sarah Thurlow</b> . Large white. Late. ....	4.50	40.00
<b>Inspecteur Laverne</b> (8.5). Vivid crimson. Early. ....	4.50	40.00	<b>Solange</b> (9.7). Rich creamy-white, suffused with buff and delicate salmon-pink. Late. ....	6.00	50.00
<b>James R. Mann</b> (8.7). Rose-pink, lightly streaked with crimson. Midseason. ....	4.00	35.00	<b>Souv. de Louis Bigot</b> (9.1). Vivid rich pink with a salmon undertone. Midseason. ....	6.00	50.00
<b>Karl Rosefield</b> (8.8). Brilliant, velvety crimson blooms. Midseason. ....	4.00	35.00	<b>Tourangelle</b> (9.4). Large blooms of pearl overlaid delicate shade of salmon-pink. Late. ....	4.50	40.00
<b>La Perle</b> (8.5). Pink in the bud, opening in a creamy-white, flecked with crimson. Midseason. ....	4.00	35.00	<b>Walter Faxon</b> (9.3). Vivid salmon-pink. Midseason. ....	5.50	50.00

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Red. ....	2.90	25.00
White. ....	3.50	30.00



ESTABLISHED 1875

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# Mount Arbor Nurseries

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Forms for the September 1 issue will close Monday, August 20.

Mail copy to arrive at Chicago by that date—no later!

# THOUSANDS OF DEALERS ARE SELLING *the Long Season, Profit Making* **MOW-MASTER**



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**MAKES LEAVES  
VANISH like  
MAGIC**

★  
**MOWS LAWNS  
CUTS TALL GRASS  
and WEEDS**



**THE ONLY  
POWER  
MOWER  
with the  
EXCLUSIVE  
*Grind-a-Leaf*  
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INSTANTLY**

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## AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*

Joan L. Kilner, *Assistant Editor*

### Editorial

#### RETAILER'S MARKUP.

Those who debate as to the amount of the retailer's markup on nursery stock may find interest in the figures that resulted from a recent study by the United States Department of Agriculture regarding the distribution costs of apples grown in the Pacific northwest, which recently have been dumped in large quantities because of depressed market conditions.

Over a 6-month period a western grower got an average price of \$1.17 for a 42-pound box of apples. Delivered in Pittsburgh, this box brought \$5.12. The per box refrigerator freight charge, including the federal transportation tax, was \$1.08. This raised the cost to \$2.25, to which were added the broker's fee, the wholesaler's charge and the retailer's markup of \$1.20 per box. The apples have to retail at more than 400 per cent of the price paid to the grower.

#### BRITISH GARDEN PROGRAM.

The 1951 Festival of Britain, designed to bring foreign tourists and trade to England, has greatly increased the business of nurserymen and florists among their own countrymen. Thousands of pounds have been spent for trees, shrubs and flowers to use in spots previously unplanted, largely because of the festival garden program.

Administered by the National Association of Parish Councils, the garden program was formed to encourage landscaping in small communities, and many private lawns, parks, public grounds and memorial gardens have already been planted. Bomb sites on the main roads at Dover are being transformed into gardens, and at Sunbury-on-Thames and Southall gardens have been provided especially for the aged. Rotherham is spending almost 7,000 pounds to convert its churchyard, located in the center of town, into a garden of rest. At the famous St. Paul's cathedral, in London, the land between Cannon street and Watling street, formerly a desolate tract, has become a garden.

In addition to the increased plant-

ing within the country, the market center of Covent Garden has arranged two flower shows, the first such shows in its history. Another innovation this year was national flower day, celebrated June 12, when everyone was requested to wear a buttonhole flower, which may begin the revival of an old custom.

Actually the added business brought to nurserymen and florists this year by the festival will be of only temporary value unless it is an indication of a steadily increasing interest in plants and landscaping. Already there are signs that the plantings made to decorate the English countryside for its festival year will become permanent. The borough of Bridgnorth, in addition to sponsoring the festival garden program, is offering a silver cup, to be competed for annually, for the best landscaped business premises in the borough. Another trophy will be presented for second premises, and eight prizes will be awarded to local gardens.

The exhibition grounds and pleasure parks created especially for the festival, such as the one at Battersea park, may be allowed to revert to their former condition at the end of the festival year. It seems likely, however, that wasteland which has been planted in rural areas and small communities will continue to be tended. Permanent plantings will eventually be established, resulting in orders for seeds and plants which were never needed before.

#### TRAIN NEW HELP.

The important matter of training new help properly is all too frequently overlooked. Familiarity with the job on the part of the foreman too frequently leads him to believe that the work is so simple that anyone should be able to do it with only the most meager instructions.

It is true that some of this work can be done by inexperienced help, but the efficiency with which they will work will depend upon careful and complete instructions and some supervision to be sure that the instructions are followed. A haphazard job results in an inferior product and is a waste of time and materials, and that is the kind of job you will get from poorly trained help.

Regardless of what the operation is, be sure your employees know the best way of doing it and be sure that

they follow your instructions. A new man—even if he is a college graduate—requires careful training in your way of doing things.

#### GETTING ALONG WITH PEOPLE.

Close to the top in any list of business assets is the ability to get along with people. It is paramount in the salesman, essential in the successful employer and important in the employee. Not infrequently is a cheerful, willing worker of limited talents rated higher in value by his employer than a genius whose temperament causes friction with those about him. Emotion is a disturbing element; it interferes with accuracy, and it retards production. Irritation impedes the organization just as sand in the gear-box slows down a machine.

The successful nurseryman is one who promotes courteous and friendly relations with customers and public. Employees not only add to their own enjoyment of the work they do, but also enhance their own value to their organization by similar effort to promote good relations with customers and with their fellow workers. Large corporations recognize this fact, and in the Westinghouse News recently appeared the following rules for getting along with people:

1. Keep skid chains on your tongue. Always say less than you think.
2. Make promises sparingly and keep them faithfully, no matter what it costs you.
3. Never let an opportunity pass to say a kind and encouraging word to or about somebody. Praise good work, regardless of who did it.
4. Be interested in others, in their pursuits, their welfare, their homes and families. Let everyone you meet, however humble, feel that you regard him as one of importance.
5. Keep the corners of your mouth turned up.
6. Keep an open mind on all debatable questions. Discuss, but do not argue.
7. If you have virtues, let them speak for themselves. Refuse to talk of another's vices.
8. Be careful of another's feelings.
9. Pay no attention to ill-natured remarks about yourself. So live that nobody will believe them.
10. Do your work, be patient, keep your disposition even, forget self and you will be rewarded.



# Mail Order Men Hear Ad Experts

## BUSINESS SESSION.

Following the successful pattern of last year's program, the annual meeting of the National Mail Order Nurserymen's Association, at the Hotel La Salle, Chicago, August 6 and 7, comprised a day of talks on aspects of advertising, which are summarized in an adjacent column, and a half-day's business session, at which a panel of members discussed the probable supply and demand in the season ahead.

At the conclusion, new officers were elected according to the slate presented by Howard J. Maloney, chairman of the nominating committee: President, Howard N. Scarff, W. N. Scarff's Sons, New Carlisle, O.; vice-president, Vaughn Woodward, Neosho Nurseries Co., Neosho, Mo., and secretary-treasurer, Harold J. Timmons, Buntings' Nurseries, Selbyville, Del. Reelected directors were John W. Kelly, Kelly Bros. Nurseries, Dansville, N. Y., and Clarke Kidd, Arp Nursery Co., Tyler, Tex.

## Postal Rates.

Prior to the meeting, much work had been done on the postal rate bills now before Congress, particularly by Secretary Timmons, who reported that this association, as well as the American Association of Nurserymen, supported Senate bill 1335 as amended, or in substitute form, now before the Senate committee. This carries an exemption for perishable agricultural commodities, including live plants, trees and shrubs.

For the fact-finding committee, Harold Goldstein reported no further action had been taken by the Federal Trade Commission on gladiolus bulb grades since the hearing at Chicago in early spring.

John Kelly asked the attitude of the nurserymen present on financial support for promotion of the national garden program proposed for government sponsorship. As previously reported, Paul Stark and Dr. B. S. Pickett have been industrious in its behalf.

Discussion of meeting dates revealed that those present favored early August.

## President's Message.

The installation of officers was accompanied by vigorous praise of the work done in a difficult year by the retiring president, Kimball An-

draws, Andrews Nursery Co., Fari-bault, Minn.

In his short presidential message opening the meeting, Mr. Andrews dwelt on the subject that recurred in the panel discussion the following day, the necessity of better prices to produce an adequate profit. He said:

"One of our biggest problems for the future is to price our products so that we can stay in business. I'll venture to say that almost every nursery found, when the rush of packing was over this year, that its overhead had increased substantially since the pre-



Howard N. Scarff.

ceding season. Many concerns will make less money than a year ago.

"I should like to see a committee appointed by your new president to work on a plan to educate the nurserymen on the value of their products and get our prices up to a point where the nursery industry is a profitable enterprise.

"Our customers do not know the value of an apple tree, a lilac bush or a magnolia any more than they know what it costs to produce a Ford, a Chevrolet or a Buick. If we make the public want our products, it will pay double the price or triple the price it is now paying for plant material."

## Panel on Prospects.

In place of the long sessions at earlier meetings spent in discussing crop prospects from the floor, a panel of eight members was seated on the platform and each reported on one

[Continued on page 55.]

## TALKS ON ADVERTISING.

The first day of the meeting of the National Mail Order Nurserymen's Association was given over to talks by top-notch advertising executives, whose informative comments and advice were heard attentively and followed by interested discussion. Not only general outlines of advertising procedure were included, but practical suggestions for saving money and producing better effects in printing catalogs.

## Better Design.

Speaking on "Better Design for Nursery Catalogs," Walter Howe, director of typography for R. R. Donnelley & Sons, big Chicago printing house, asserted that mail-order catalogs in this field lagged behind other forms of printing in their design.

Because the size of individual sales made through the nursery catalog is small and because the editions are generally small, cost is a particular problem, he said. Because of tradition and familiarity, nurserymen are less critical of their own printing.

Favorable factors in the picture, said Mr. Howe, are that nurserymen sell beauty in ornamental plants, home economy in fruits and vegetables and, besides, a useful and healthy hobby. Garden magazines and newspaper garden columns are working constantly in nurserymen's behalf. The market is quite stable, and there is not much worry about new models' being outmoded.

These factors present an exciting, even romantic, story, but few catalogs tell it in that vein.

Mr. Howe suggested that each mail-order nurseryman design his ideal or "dream" catalog. He may not be able to make it a reality at once, any more than a young couple can build their dream house as they plan it. But the plan is ready, and some of it may be achieved.

Design the catalog for the readers, urged Mr. Howe. Make it easy to read, easy of reference, easy for ordering. Give it distinctiveness and character so that it will not be confused with the catalogs of competitors.

The catalog should reflect the integrity, character and service of the issuing firm. It should sell, not just

[Continued on page 57.]

# New Jersey Meet at New Howe Market

By R. P. Korbobo, Secretary

After suffering downpours of rain at the past three summer meetings, the New Jersey Association of Nurserymen enjoyed ideal weather when members and guests gathered August 1 at Howe Nurseries, Pennington. Nearly 300 persons attended, more than doubling the attendance record for previous years, and entered into lively discussions on the subject of the day, "Summer Planting of Landscape Stock."

## Discuss Plant Market Features.

After an inspection of the new plant market at Howe Nurseries, a discussion was held of the features of a good plant market, beginning with lighting. It was pointed out that, in the early months of spring and the late months in autumn, the days are short, and many people coming home from work do their shopping at hours when lighting is needed. At Howe's the indoor lights are allowed to burn all through the night during the peak sales season, so that motorists passing by will be tempted to come back to the plant market at a later time to shop. Keeping the lights on all night is advertising twenty-four hours a day.

Overhead doors are used the full

length of the market for two good reasons. When frost warnings are received, the tender plants are moved indoors, the overhead doors are rolled down and the heat is turned on. As soon as it is safe, the doors are opened and the plants are returned to the outdoor plant market. Also, colorful flowers displayed by indoor lighting when the doors are closed act as a constant show window.

At one end of the market is a scale model of the Trenton freeway, which is being planted by Howe Nurseries. This is thought to be the first summer planting ever done for the state department of highways. Near the model was an aerial photograph of the nurseries, with each feature of the day's program marked on it. All through the day running commentaries were made over the public address system and questions were invited.

## Demonstrations Featured.

When the nursery tour began at 10:30 a. m., the first to be seen were items difficult to transplant, including honey locust and white oak. Although the plants had been dug the day previous to the meeting and had

been left in the hot sun, the foliage was not flagging. There were also two large pines and some maples and inkberries that had been pre-dug for a private planting job and a couple of hundred *Rosa rugosa* in paper pots that had been pre-dug for summer orders. The inkberries and *rugosa* roses were headed for the Trenton freeway planting. Before continuing the tour, nurserymen witnessed a demonstration of the unloading of a large tree from one of Howe's trucks.

The first piece of equipment to be shown was a special laborsaving device attached to the two outside cultivator prongs on a one-horse cultivating outfit. By proper manipulation the machine can weed almost everything between the plants in a row. Next was a demonstration of the Roto-hoe, as employed in the nursery for weeding and cultivating. No single machine can do all the weeding and cultivating over the entire nursery, and different sizes are needed.

The individual ideas of members of the firm have been adapted to much of the mechanized equipment; for example, the hot exhaust from the gasoline-driven engines of the cultivator or the Roto-hoe can do much damage to plants. Therefore, extensions were put on the two exhaust pipes and then turned in toward the center of the machine so that plants would not be injured by the hot fumes. Another homemade device was a metal guard that reached to the soil level, so that the spreading branches of some plants such as Japanese yew would not be caught in the rotating hoes of the cultivating equipment.

The group then inspected a large plot of young shade trees that had been planted on the contour and planted over with sod in the interests of soil conservation. The conservation work was originally inspired several years ago by Prof. L. C. Chadwick, of the department of horticulture at Ohio State University, when Mr. Howe heard him speak at a nurserymen's meeting. Since then, in cooperation with state and federal soil conservation agencies, Howe Nurseries have initiated a program that will eventually engulf the entire nursery. A pond for irrigation, fire control and drainage



Among those who watched a demonstration transplanting of a full-grown tree at the New Jersey Association of Nurserymen meeting were, left to right: R. P. Korbobo, secretary; William P. Howe, Jr., host; W. H. Simonson, of federal road bureau; Mr. Abbott, highway commissioner, and Oliver A. Deakin, state parkway engineer.

improvement is already in operation.

All of the holes for the couple of thousand trees on the conservation plot were dug with a posthole digger, the diameter of which was upward of twenty-four inches. Piles of manure were placed at each point where a tree was to be planted and, as the digger drilled down through the manure, it was mixed with the soil and thrown to the edges of the hole. Mr. Howe hopes that by using sod in this plot, cutting it two or three times during the growing season and allowing the grass to remain, new topsoil will constantly be formed.

The final demonstration consisted of the digging, balling, burlapping and loading of a Norway maple tree with a trunk caliper of nine inches. It was guessed that the ball of earth weighed about five tons. The digging operation was started the day before the meeting, and the demonstration of completing the roping and loading of the tree was right on schedule. Although New Jersey had been experiencing a severe heat wave, there was not a wilted leaf on the tree. After it was loaded on a truck, the tree was hauled to the purchaser's property.

#### Summer Planting.

After a discussion of summer planting, it was decided that the following three main points are the ones to be considered if a retail nurseryman thinks of adopting summer planting practices:

1. By working all through the summer the operator will be in a better position to maintain a year-around labor force and will therefore be able to train and hold more skilled help. Workers will feel more secure in their employment and more loyal to their employer. Summer planting also brings more money to the firm, not only for wages, but for better equipment, more land and the expansion of business.

2. Summer planting prepares a bigger and more satisfied clientele for the days ahead, when business will not be so lull. The nurseryman who has operated all through the year will be in a better financial position when business begins to subside.

3. The American consumer is an impatient person. With all other types of business and industry progressing at a rapid pace to bring more and better service, it seems high time that the nursery trade im-

#### HOWE'S NEW MARKET.

Among the first nurseries to start roadside marketing was Howe Nurseries, Pennington, N. J., which began this type of operation eighteen years ago. Last winter old sheds, which had served since 1932, were razed to make room for a modern building for displaying stock. It was ready for operation this spring.

The new sales and display room is 20x100 feet and fronts on the old highway from Trenton through Pennington to north Jersey. The salesroom is at the front, and the building extends to the rear, where overhead doors may be opened or closed as weather permits. Stone walks have been put in between display stands.

The view of the market from the street presented a picture of luxuriant bloom and delightful color during the height of the season, attracting visitors from miles around.

The firm also has a plant market at Trenton at the intersection of Greenwood avenue and Nottingham way on Route 33. It is the direct route to the seashore from points north and west of Trenton. This market occupies a space of approximately 45,000 square feet. It is kept supplied with fresh stock from the nurseries at Pennington, and displays are constantly changed.

There are now approximately 150 acres of stock growing in the nurseries at Pennington. An adjoining farm, purchased last spring, brings the total area of Howe Nurseries to about 315 acres. A pool for irrigation, soil conservation and fire con-

trol was added last year. It is 40,000 square feet in area and has a depth of eight to nine feet. Later the banks will be landscaped.

The maple grove, where lunch was served to the members of the New Jersey Association of Nurserymen August 1, adjoins two blocks of trees planted on contour, part of the soil conservation program under which Howe Nurseries are now operating. New equipment for cultivating this section was acquired.

The firm also operates Howe Landscape Service, geared to do large and small plantings, from modest Cape Cod cottages to large estates. Recent highway contracts have included the first section of Palisades parkway, along the Hudson river; a section of Route 25, near Elizabeth, N. J., and a section of the Trenton Freeway, now under construction to link up with the New Jersey turnpike. The Trenton Freeway project is the first summer planting of a public project.

Howe Nurseries were established forty years ago by William P. Howe, Sr., who is still active in the business. His son, William, Jr., is general manager of the nurseries and plant markets, and William III is majoring in horticulture at Rutgers University preparatory to following in the footsteps of his father and grandfather.

GOING into partnership with the former Waltham Nursery is L. N. Aggerholm, Route 1, Box 4, Shepherd, Tex.



New Plant Market of Howe Nurseries, Pennington, N. J.

[Continued on page 60.]



### RESTORING FOOTBALL FIELDS BY AERATION.

As everyone concerned with athletics, particularly football, knows, the playing fields become badly scuffed, compacted and, in reality, chewed to pieces. With or without constant care they soon deteriorate to the point where they must be re-sodded.

The University of Minnesota has always gone to great lengths to keep its playing fields in good condition, and the annual expense of restoring them has run into thousands of dollars.

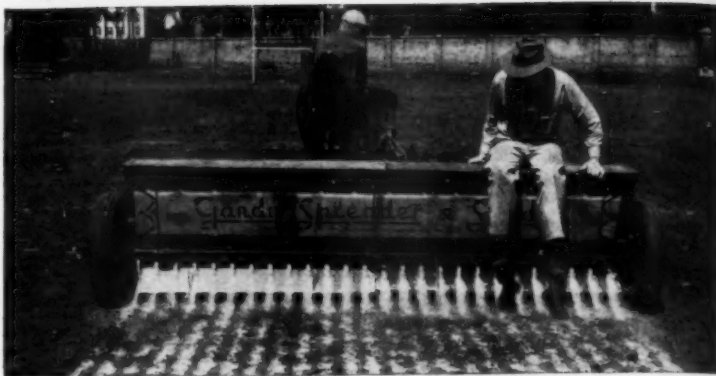
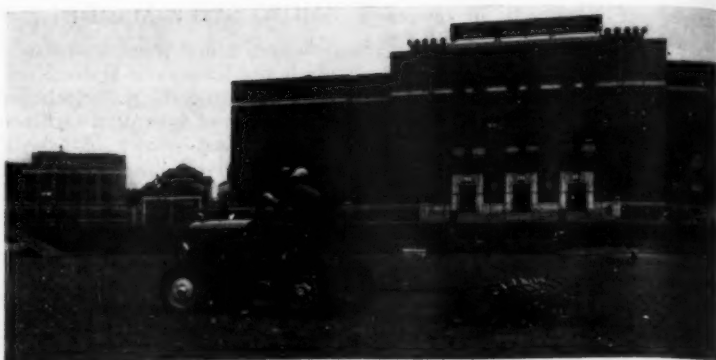
In past years the program was to strip the field with a giant road grader; then, with a fleet of trucks, loaders and crews of men, the old sod was laid into windrows and hauled and piled where it could be decomposed and used as top-dressing. The fields were then floated and a light dressing of superphosphate was applied, followed by the laying of thousands of square yards of new sod.

At the suggestion of Dr. C. O. Rost, of the college of agriculture, and concurred in by Ike Armstrong, our director of athletics, and Dr. W. F. Holman, superintendent of buildings and grounds, a new process of aeration, fertilization and seeding was tried with indications that much has been accomplished.

The accompanying illustrations show in detail the sequence of the operation. A total of over 251,500 cores of soil were lifted from each field, weighing upward of five tons. These cores, each four and one-half inches long and one-half inch in diameter, were dropped back on the surface as top-dressing. Using a tractor-drawn mechanical earthworm, the Soilaire Tractoraire, going ten miles an hour, a total of fifty minutes was required to do the job. While the cored holes were open, balanced fertilizer, at the rate of 1,200 pounds per acre, was applied with a 10-foot spreader. One hour was required for applying the fertilizer. The important thing seems to be to get the fertilizer below the ground where it does not leach out.

The third step was using a spike-toothed harrow to ruffle the skinned areas and provide a bite for the seeds. Reseeding was done immediately afterward, at the rate of 10 pounds bluegrass seeds per field. It took forty-five minutes to do the seeding. This was followed by watering.

In place of the old operation,  
[Concluded on page 65.]



Sequence of Operations in Restoring Football Field by Aeration.

Top: Soilaire Tractoraire aerates soil by extracting cores of soil.

Second: Spreader applies fertilizer while cored holes are open.

Third: Spike-toothed harrow ruffles skinned areas to prepare for reseeding.

Bottom: Seeder sows grass seeds, which are afterward watered in.



# Big Losses Suffered in Kansas Flood

Nurserymen in Kansas are still estimating losses from the floods which inundated much of the state in July. This flood was of longer duration than the previous severe flood, in 1941, and water flowed over fields with greater force and rose to a greater height than before. Just preceding the flood, much of the area was deluged with a cloudburst that left five inches of water standing in fields. Nurserymen had just finished pumping off this water when the floodwaters rushed in.

The photographs reproduced here, taken by Ralph Ricklefs, Jr., of the Kansas Landscape & Nursery Co., Salina, during the flood, show condition of the fields and stock during the inundation. Comments from several nurserymen in the flood-stricken areas follow:

## Nurseryman Nearly Drowned.

Bob Scott, of Kansas Evergreen Nurseries, Manhattan, Kan., was caught in a channel of deep water cut by the flood and barely escaped drowning. Riding in about four feet of water toward a bridge when his horse stepped into water ten feet deep, Mr. Scott was swept off the horse and had to crawl through mud under the water until he was out of the channel.

At his nursery all of the stock on the shelves, that in the salesyard and all of the office equipment were lost. Water and mud stood four feet deep in the office for a week, and it was not until August 1 that the supply of city water was restored so that cleaning up could begin. The nursery building, which stood in a swift current during the flood, was still settling badly on one side at the end of the first week in August. A deep river channel was cut near it during the flood, and about fifty feet away was a railroad turntable, the rails, ties and bulwark of which were broken up and wrapped around the nursery office. At the peak of the flood no one was able to go into the area, and so there are no pictures of the damage.

Losses at the nursery and those suffered by Mr. Scott at his farm total about \$25,000. A new 12-acre field of nursery stock was covered by four to ten feet of water, and the stock is almost a total loss. The house on this block was spared, and possibly a few finished evergreens may be saved.

## Five Feet Deep at Salina.

The nursery stock of the Kansas Landscape & Nursery Co., Salina,



One-year cedar seedlings in field of Kansas Landscape & Nursery Co. on fifth day of flood when water was two feet below crest. This field was later drained.

Kan., planted in five blocks, located on the east and north of the city, was under water to depths of one to five feet for at least four days during the flood, according to George Fisher. Water dropped at three distinct times, the first drop at four days, the second at eight days and the last at eleven days.

Fortunately about three-fourths of an acre on the Iron avenue field, where the office is located, was above all high water. On this section were 250,000 to 300,000 2-year seedlings and transplant red cedars and pines. Some cedar and arborvitae transplants were a total loss after five days under water.

About 400,000 to 500,000 one-year cedar seedlings were under one foot of water for five days, and under quite a current stress. Where not washed severely, these recovered almost 100 per cent as a result of spray-

ing with overhead irrigation every hour in the day after the water receded. The lower portion of these  
[Continued on page 62.]

## FLOOD AREA SEEKS STOCK.

Losses suffered by nurserymen in the flood that rampaged last month over areas of Kansas and Missouri are stunning and unfortunate. Low inventories will hurt planting. Especially hard hit were growers of seedling stock for farmstead and field shelterbelts.

In view of this situation the Soil Conservation Service is much interested in locating acceptable supplemental planting stock for use in Kansas, Nebraska and South Dakota. These three states could use several million hardwoods and conifers from commercial nurseries if the stock is available.

"We do not have a list of producers in surrounding states who may be interested in supplying part of our planting needs," says Fred P. Eshbaugh, manager of the Soil Conservation Service at Manhattan, Kan. "However, we thought that if nurserymen knew of our needs before the active selling season begins, we might be able to salvage some of our planting plans and distribute stock to areas where it is most needed."

Nurseries which can supply such stock should get in touch with Mr. Eshbaugh. His address is Fred P. Eshbaugh, manager, U. S. D. A. Soil Conservation Service Nursery, P. O. Box 517, Manhattan, Kan.



Airplane view of flooded Kansas Landscape & Nursery Co., Topeka, on fourth day of flood, when water had receded six inches from the crest.

# Chemical Weed Control in the Nursery

By Dr. A. M. S. Pridham, Cornell University, Ithaca, N. Y.

Progress in the control of weeds in the nursery has been relatively slow and experimental work sparse in comparison to that in other phases of agriculture. In January of this year the United States Department of Agriculture published a "Bibliography of Weed Investigations for 1950." It contains 111 pages, averaging twenty-five citations to the page, or a minimum of 2,500 papers on weed control for one year.

There are a number of reasons why nurserymen are slow to adopt chemical methods of weed control. In the first place, few nurseries have large blocks of one kind or variety of plant. Corn, potatoes, wheat and cotton are grown in large acreage on land that is plowed each year. They are relatively short-time crops; often one or two weedings will suffice to control successfully the annual weeds that infest these crops.

Nurserymen have limited areas devoted to one plant variety and have a year-around problem of weed control on land that can be plowed only occasionally; hence, perennial and winter annual weeds become major problems. Stock of high quality, free from blemish, is of prime importance to nurserymen. Woody ornamentals are not a few months' investment but several years' investment. This means that weed control methods must not injure the stock in any way.

## Spring Control.

In May the control of winter weeds and of young seedlings is important. Early use of conventional methods on warm sunny days is a good beginning. Wet soils in many sections of New York this year hampered spring digging, planting and weed control. Dormant application of herbicides for control of chickweed, annual bluegrass, oats and rye were especially useful this year. It is now too late, except where special equipment has been developed, to protect the nursery plants while sprays are being applied.

Annual chickweed, *Stellaria media*, is easily controlled in November and December by any one of a number of chemicals. The majority of reports on successful control are based on fall treatments.

Dense mats of chickweed in spring are another matter altogether. Repeated treatments will likely be needed. During several years of test-

ing, applications of sodium pentachlorophenate, at 25 pounds per acre, have shown good results on a number of evergreens for chickweed control. Dinitro compounds applied at manufacturer's directions are also possibilities. Carrot spray has been used successfully on some crops. Geese have also been used to clean up chickweed. Chemicals may be applied directly over nursery stock in dormant condition, or better, they are applied to the chickweed at the base of the plants, where this is possible. Do not make applications when growth of nursery stock begins.

The chemicals listed for control of chickweed are useful for annual bluegrass, *Poa annua*, as well. This statement has to do primarily with late winter or early spring treatment. Fall applications of sodium trichloroacetate (TCA) or of isopropyl n-phenol carbamate show promise, but tests are still in the experimental stage with nursery stock. Late winter treatments with a thalate listed as Niagarathal are showing good results this year. So, also, is a Du Pont product, C.M.U., but the reaction of nursery stock to it has yet to be determined.

## Winter Weed Control.

Since 1946 progress has been made in experimental winter weed control, and this phase may yet prove to be of practical value to nurserymen, as it has in the control of woody weeds with 2,4-D and 2,4,5-T brush killer in the maintenance of right of ways, power lines, including hedgerows, and the like. Many herbaceous perennials can be killed by late fall or early spring treatment before bud break; 2,4-D can be used effectively, and nonvolatile forms should be insisted upon.

A third type of winter weed control is treatment of specific nursery weeds, such as quack grass, *Agropyron repens*, and *chrysanthemum* weed, *Artemisia vulgaris*, growing on land that has been cleared of nursery stock. Quack grass can best be eliminated by the use of TCA (sodium trichloroacetate) sprayed on the roots of quack grass immediately following shallow autumn plowing. From 100 to 200 pounds of chemical are advisable where thorough clean-up is desired. The soil should be reworked in spring and planted with either a hoe crop, such as beans, or

a cover crop for a year before nursery stock is again planted on it. This applies particularly on sandy soils. Nursery crops have been planted on clay loam in the spring following fall treatment without any noticeable effect on the crop.

*Artemisia vulgaris*, or *chrysanthemum* weed, has been controlled by using the nonvolatile form of 2,4-D, at 10 pounds per acre, applied to the roots immediately following shallow plowing in October or November. Chemicals applied to the foliage do not give satisfactory control. Inactivated rapidly in the soil is 2,4-D, and spring planting of nursery crops can be counted on under normal conditions. The use of 2,4-D to control *chrysanthemum* weed in the nursery row does not appear to be a practical method because of the danger of deforming young shoots of nursery stock during the growing season. Furthermore, only partial control can be anticipated.

## Summer Weeds.

Summer weeds are largely annuals and can be easily controlled in the seedling stage by conventional methods of cultivation. Chemicals are not so useful in the nursery as with field crops except when special machinery is available to protect the plant foliage and stems from direct contact with the herbicide.

Summer grasses are particularly troublesome, also purslane. A new chemical offers some real possibilities when used with the spray guards already developed for use with beans, cotton and other crops. The chemical is a thalate sold as Niagarathal. It is still in the experimental stage, but has done a good job on large weeds of the common annual grasses, purslane, ragweed and clovers. It is not satisfactory on perennial grasses, although it does kill the tops back to the ground as do the cyanamid and chemicals of the cyanate group, pentachlorophenates and dinitros.

The use of chemicals to supplement normal cultivating equipment has possibilities in reducing hoeing in the row. A great deal of work is needed to explore this situation, and it must be done crop by crop and weed by weed. This is a big job. Perennial flowers are an especially important field as yet unexplored.

Seedbeds, lining-out stock and lathe

[Continued on page 65.]

# Pointers on Propagation

By James S. Wells

## METHODS FOR THE SMALL GROWER.

Some time ago we discussed in this column some of the ways in which a small grower can increase the plants in which he is interested, using a coldframe. I believe that we large growers are inclined to become overcomplicated in our thinking on propagation because we have a modern range of greenhouses and all the technical equipment which goes with it, and we rather lose sight of the needs and worries of the small grower who has none of these things. He may, perhaps, build himself two or three frames, hoping to produce a moderate quantity of a fairly wide selection of plants for his immediate local trade.

Of course, you will say that such a grower should buy from a large propagating nursery which specializes in this work and could presumably produce plants more cheaply than he. That is all very well, but it still does not give the answer he needs. If a man is associated with plants at all and considers himself a grower, sooner or later he is going to say, "Why shouldn't I propagate some plants for myself?" And indeed, why shouldn't he? Surely there is room for us all in this business of propagating plants.

In our discussion in the December 15, 1950, issue we considered propagation in the frames by cuttings. We briefly touched upon grafting, but it is possible for the interested grower to graft a fairly wide variety of material in a frame if he does so toward the end of the summer, in August and September. The only two requirements are some established understocks growing in pots and, of course, the necessary time at the right time. It is necessary, however, to have the understocks established in pots. Obviously they cannot be lifted when in full growth, and therefore the understocks should have been prepared for this purpose. If you have a number of understocks which were potted early in the spring in readiness for next spring's grafting, it is a good idea to take a proportion of these in August or September and attempt some summer grafting on them. We have found this procedure to be particularly satisfactory for Japanese maples, pink dogwood, viburnums,

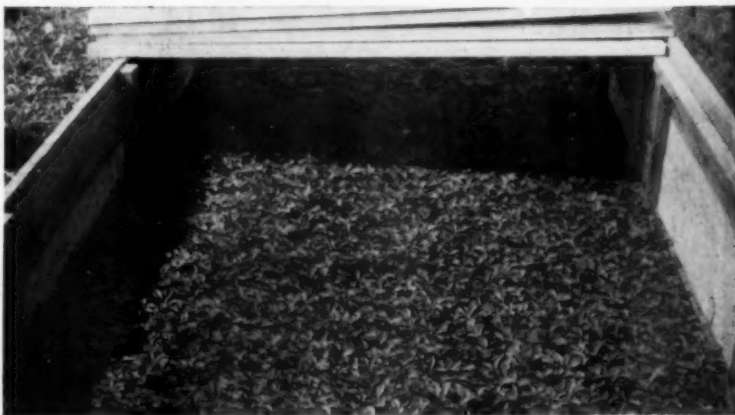
Hamamelis mollis and magnolias, to mention but a few.

The stock and scion graft together in a normal manner with a side veneer graft, the point of union being covered with paraffin wax, and the pot is then plunged in moist peat or even in sandy topsoil in the frame. The frame will need to be shaded and should be syringed with water two or three times a day to maintain a moist or humid atmosphere. Under such conditions stock and scion will rapidly join together, for growth is vigorous at this time of the year and the callusing period is much shorter than it is in the early spring. Once the callus is well established, air can be given the plants in slowly increasing quantities until, at the end of a month to six weeks, the plants can be opened up completely. The top

of the understocks can be removed and the plants left growing on their own under heavy shade. By the end of October, the point of union will be well established and thoroughly hardened off, and the plants will come to their normal state of winter dormancy in the usual way.

We have found that pink dogwood treated in this manner are not subject to winter losses as are rooted cuttings taken at the same time. This is something which is quite unexplainable and is one of the curious anomalies which make plant propagation so exasperating and at the same time so interesting. Why should a piece of *Cornus florida rubra* with roots on the end of it and well established in a pot, split and die in a frame, while an exactly similar piece attached to the roots of a white dogwood in the same frame comes through without any damage whatsoever?

Rhododendrons can be grafted successfully in a coldframe in August, [Continued on page 48.]



Above: July cuttings of pachysandra well rooted in a coldframe.

Below: Grafted in August, 1950, these *Cornus florida rubra* showed few winter losses when photographed in April, 1951.



# EVERGREENS

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<b>JUNIPERUS CHINENSIS KETELEERI</b> (Keteleer Juniper)	18 to 24 2 to 2 1/2 2 1/2 to 3	ins. ft. ft.	2.50 3.00 4.00	...
<b>JUNIPERUS CHINENSIS PFITZERIANA</b> (Pfitzer Juniper)	12 to 15	ins.	1.75	1.50
<b>JUNIPERUS CHINENSIS PYRAMIDALIS</b> (Pyramid Chinese Juniper)	2 to 2 1/2 2 1/2 to 3 3 to 3 1/2	ft. ft. ft.	3.00 4.00 5.00	2.75 3.75 4.75
<b>JUNIPERUS VIRGINIANA</b> (Red Cedar—Platte River Type)	2 to 2 1/2 2 1/2 to 3 3 to 3 1/2 3 1/2 to 4	ft. ft. ft. ft.	2.50 3.50 4.50 5.50	2.25 3.25 4.25 5.25
<b>JUNIPERUS VIRGINIANA CANAERTI</b> (Canaert Red Cedar)	2 to 2 1/2 2 1/2 to 3 3 to 3 1/2 3 1/2 to 4	ft. ft. ft. ft.	3.00 4.00 5.00 6.00	2.75 3.75 4.75 5.75
<b>JUNIPERUS VIRGINIANA GLAUCA</b> (Silver Red Cedar)	2 to 2 1/2 2 1/2 to 3 3 to 3 1/2	ft. ft. ft.	3.00 4.00 5.00	2.75 3.75 ...
<b>JUNIPERUS VIRGINIANA HILLI</b> (Hill's Dundee Juniper)	2 to 2 1/2 2 1/2 to 3 3 to 3 1/2 3 1/2 to 4 4 to 5	ft. ft. ft. ft. ft.	3.00 4.00 5.00 6.00 7.00	2.75 3.75 4.75 5.75 6.75
<b>JUNIPERUS SABINA</b> (Savin Juniper)	15 to 18 18 to 24 2 to 2 1/2	ins. ins. ft.	3.00 3.50 4.00	2.75 3.25 3.75
<b>JUNIPERUS SABINA VONEHRON</b> (Vonehron Juniper)	12 to 15	ins.	1.75	1.50
<b>PICEA EXCELSA</b> (Norway Spruce)	18 to 24 2 to 2 1/2 2 1/2 to 3 3 to 3 1/2 4 to 5	ins. ft. ft. ft. ft.	2.00 2.25 2.50 3.50 4.50	1.75 2.00 2.25 3.25 4.25
<b>PICEA GLAUCA</b> (White Spruce)	18 to 24	ins.	2.00	1.75
<b>PICEA GLAUCA DENSATA</b> (Black Hills Spruce)	12 to 15 15 to 18 18 to 24 2 to 2 1/2 2 1/2 to 3 3 to 3 1/2 3 1/2 to 4 4 to 5 5 to 6	ins. ins. ins. ft. ft. ft. ft. ft. ft.	2.00 2.25 2.50 2.75 3.00 4.00 4.50 5.50 6.50	1.75 2.00 2.25 2.50 3.75 4.25 5.25 6.25
<b>PICEA PUNGENS GLAUCA</b> (Colorado Blue Spruce)	12 to 15 15 to 18	ins. ins.	2.50 3.00	2.25 2.75
<b>PICEA PUNGENS KOSTERIANA</b> (Koster Blue Spruce)	2 to 2 1/2 2 1/2 to 3	ft. ft.	6.50 7.50	6.25 7.25
<b>PINUS MUGHUS</b> (Mugho Pine)	12 to 15	ins.	1.75	1.50

	Size	ins.	Per 10	Per 100
<b>PSEUDOTSUGA DOUGLASI</b> (Douglas Fir)	15 to 18 18 to 24 2 to 2 1/2	ins. ins. ft.	\$2.25 2.50 2.75	...
<b>TAXUS CUSPIDATA</b> (Spreading Japanese Yew)	15 to 18 18 to 24 2 to 2 1/2	ins. ins. ft.	4.50 5.50 7.00	4.00 5.00 6.00
<b>TAXUS CUSPIDATA CAPITATA</b> (Upright Japanese Yew)	18 to 24 2 to 2 1/2 2 1/2 to 3	ins. ft. ft.	5.50 7.50 8.50	5.00 7.00 8.00
<b>TAXUS CUSPIDATA INTERMEDIA</b> (Intermedia Yew)	15 to 18 18 to 24 2 to 2 1/2 2 1/2 to 3	ins. ins. ft. ft.	4.00 5.50 7.00 8.00	3.75 5.00 6.00 7.00
<b>TAXUS CUSPIDATA MOONI</b> (Moon's Yew)	12 to 15	ins.	3.00	2.75
<b>TAXUS CUSPIDATA NANA</b> (Dwarf Japanese Yew)	12 to 15 15 to 18 18 to 24	ins. ins. ins.	4.00 5.00 6.00	3.75 4.75 5.75
<b>TAXUS MEDIA ANDERSONI</b> (Anderson's Yew)	12 to 15	ins.	3.00	2.75
<b>TAXUS MEDIA BROWNI</b> (Brown's Yew)	15 to 18 18 to 24 2 to 2 1/2 2 1/2 to 3	ins. ins. ft. ft.	4.00 5.50 7.50 8.50	3.75 5.00 7.00 8.00
<b>TAXUS MEDIA HATFIELDI</b> (Hatfield's Yew)	12 to 15 15 to 18	ins. ins.	3.00 4.00	2.75 3.75
<b>TAXUS MEDIA HICKSI</b> (Hicks' Yew)	12 to 15 15 to 18 18 to 24 2 to 2 1/2	ins. ins. ins. ft.	3.00 4.00 5.50 7.50	2.75 3.75 5.00 7.00
<b>TAXUS MEDIA KELSEYI</b> (Kelsey's Yew)	12 to 15 15 to 18	ins. ins.	3.00 4.00	2.75 3.75
<b>THUJA OCCIDENTALIS</b> (American Arborvitae)	2 to 2 1/2 2 1/2 to 3 3 to 3 1/2 3 1/2 to 4 4 to 5	ft. ft. ft. ft. ft.	2.50 3.00 3.75 4.25 5.00	2.25 2.75 3.25 3.75 4.50
<b>THUJA OCCIDENTALIS BOOTHII</b> (Booth Globe Arborvitae)	15 to 18 18 to 24 2 to 2 1/2	ins. ins. ft.	2.50 3.00 3.50	2.25 2.75 3.25
<b>THUJA OCCIDENTALIS ELEGANTISSIMA</b> (George Peabody Elegantissima)	18 to 24 2 to 2 1/2	ins. ft.	2.25 3.50	2.00 3.00
<b>THUJA OCCIDENTALIS NIGRA</b> (Dark Green American Arborvitae)	15 to 18 18 to 24 2 to 2 1/2 2 1/2 to 3 3 to 3 1/2	ins. ins. ft. ft. ft.	2.00 2.25 2.75 3.25 4.00	1.75 2.00 2.50 3.00 3.75
<b>THUJA OCCIDENTALIS PYRAMIDALIS</b> (Pyramidal Arborvitae)	15 to 18 18 to 24 2 to 2 1/2 2 1/2 to 3 3 to 3 1/2 3 1/2 to 4	ins. ins. ft. ft. ft. ft.	2.00 2.25 2.75 3.25 4.00 4.50	1.75 2.00 2.50 3.00 3.75 4.25
<b>THUJA OCCIDENTALIS WAREANA</b> (Siberian Arborvitae)	12 to 15	ins.	1.75	1.50
<b>THUJA OCCIDENTALIS WOODWARDI</b> (Woodward Globe Arborvitae)	12 to 15 15 to 18	ins. ins.	1.75 2.25	1.50 2.00



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JUNIPERUS CHINENSIS HETZI (Hetz Blue Juniper)	6 to 9 ins.	.30	.27	TAXUS CUSPIDATA CAPITATA (Upright Japanese Yew)	3 to 6 ins.	.20	.18
JUNIPERUS CHINENSIS PFITZERIANA (Pfitzer Juniper)	6 to 9 ins.	.30	.27		9 to 12 ins.	.25	.20
	9 to 12 ins.	.45	.42		12 to 15 ins.	.35	.30
JUNIPERUS HORIZONTALIS PLUMOSA (Andorra Juniper)	3 to 6 ins.	.17	.14	TAXUS CUSPIDATA INTERMEDIA (Intermedia Yew)	3 to 6 ins.	.18	.16
	6 to 9 ins.	.25	.20		6 to 9 ins.	.22	.20
	9 to 12 ins.	.40	.36	TAXUS CUSPIDATA NANA (Dwarf Japanese Yew)	6 to 9 ins.	.35	.30
JUNIPERUS SABINA VONEHRON (Vonehron Juniper)	3 to 6 ins.	.17	.14		9 to 12 ins.	.45	.40
	6 to 9 ins.	.25	.21	TAXUS CUSPIDATA THAYERAE (Thayer's Yew)	3 to 6 ins.	.18	.16
JUNIPERUS VIRGINIANA (Red Cedar)	3 to 6 ins.	.05	.04		6 to 9 ins.	.22	.20
	6 to 9 ins.	.08	.07	TAXUS MEDIA ANDERSONI (Anderson's Yew)	3 to 6 ins.	.18	.16
PICEA EXCELSA (Norway Spruce)	3 to 6 ins.	.06	.05		6 to 9 ins.	.22	.20
	6 to 9 ins.	.08	.07	TAXUS MEDIA BROWNI (Brown's Yew)	3 to 6 ins.	.18	.16
PICEA PUNGENS (Colorado Green Spruce)	3 to 6 ins.	.20	.18		6 to 9 ins.	.22	.20
	6 to 9 ins.	.30	.25		9 to 12 ins.	.27	.25
	9 to 12 ins.	.35	.30	TAXUS MEDIA HATFIELDI (Hatfield's Yew)	3 to 6 ins.	.18	.16
PICEA PUNGENS GLAUCA (Colorado Blue Spruce)	6 to 9 ins.	.35	.30		6 to 9 ins.	.22	.20
	9 to 12 ins.	.40	.35		9 to 12 ins.	.27	.25
PINUS MUGHUS (Mughe Pine)	3 to 6 ins.	.06	.05	TAXUS MEDIA HICKSI (Hicks' Yew)	6 to 9 ins.	.22	.20
	6 to 9 ins.	.08	.07		9 to 12 ins.	.27	.25
	9 to 12 ins.	.10	.08	THUJA OCCIDENTALIS GLOBOSA (Globe Arborvitae)	6 to 9 ins.	.27	.22
PINUS NIGRA (Austrian Pine)	6 to 9 ins.	.06	.05		9 to 12 ins.	.30	.25
				THUJA OCCIDENTALIS NIGRA (Dark Green Arborvitae)	6 to 9 ins.	.25	.20
PINUS PONDEROSA (Western Yellow Pine)	9 to 12 ins.	.15	.12		9 to 12 ins.	.33	.27
				THUJA OCCIDENTALIS PYRAMIDALIS (Pyramidal Arborvitae)	3 to 6 ins.	.20	.18
PINUS STROBUS (Eastern White Pine)	9 to 12 ins.	.25	.20		6 to 9 ins.	.27	.22
					9 to 12 ins.	.30	.25
PINUS SYLVESTRIS (Scotch Pine)	6 to 9 ins.	.12	.10	THUJA OCCIDENTALIS WAREANA (Siberian Arborvitae)	6 to 9 ins.	.20	.18
					9 to 12 ins.	.27	.22
PSEUDOTSUGA DOUGLASI (Douglas Fir)	6 to 9 ins.	.12	.10	THUJA OCCIDENTALIS WAREANA NANA (Siberian Dwarf Arborvitae)	3 to 6 ins.	.22	.20
	9 to 12 ins.	.20	.18		6 to 9 ins.	.30	.25
				THUJA OCCIDENTALIS WOODWARDI (Woodward Arborvitae)	3 to 6 ins.	.20	.18
					6 to 9 ins.	.27	.22

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# Plant Notes Here and There

By C. W. Wood

A Kentucky reader writes that he wants to add one of the small western phloxes to his list, but he cannot make up his mind which one to choose. He asks for a note on one that I think would succeed there.

## Phlox Scleranthifolia.

Several phloxes that have been in our trials here in northern Michigan would answer the purpose, not only for comparatively easy culture but for beauty as well. I should dislike to pick out the best one, though it is a pleasure to recommend *Phlox scleranthifolia*. Only after one has gone through the work and anxiety of trying to grow some of the western phloxes can he properly appreciate an easy one like this. When it arrived here as seeds ten or more years ago I knew nothing about the plant. I had just had some trying experiences with other recalcitrant phloxes, and so I was not in an optimistic mood. Reference to western floras, where I found that *P. scleranthifolia* grew on mountain sides from South Dakota and Montana to Colorado at altitudes from 10,000 to 13,000 feet, was not reassuring. Subsequent events, however, were a series of pleasant surprises, revealing that the plant does well in our light sandy soil without too much attention. Nor is its ease of culture its only recommendation, for it covers itself in spring with small, white phlox flowers, to the great delight of the gardener. As it grew here it was not much over two inches tall, spreading eventually into conservative mats.

Experience here confirms again my often-expressed opinion that many western plants now considered difficult to grow in the east would prove much easier, often tractable, if one started with seeds rather than collected plants. I could name a score or more examples from my own experience, but the much-named member of the portulaca family, which is variously known as *Lewisia pygmaea*, *Calandrinia pygmaea* and *Oreobroma pygmaea*, will serve. I have had it several times in collected plants, though it never survived long, because it could not withstand the move from its high home, some 10,000 feet up Arapahoe peak, to my garden at about 700 feet above sea level. Some years ago I was fortunate enough to harvest a few home-

grown seeds, and they gave us plants that lasted for years when given a gravelly soil in shade, treatment which the plant seems to need in the midwest.

*Phlox scleranthifolia* should make a good item for the neighborhood grower who is trying to vary an ordinary list of plants. That is true, not only because of its ease of culture, but because it is an unusual phlox.

It is easily grown from seeds, if frozen, and I suspect that it would grow readily from cuttings, though I do not now remember verifying that suspicion. After years of experimenting with creeping phloxes I believe the following schedule is about the best, everything considered, for the majority of growers. In early September make cuttings, long enough to handle with ease, of the current season's growth. Insert these, after trimming them in the usual way, in a sandy soil in a frame. Here in northern Michigan we can use an uncovered frame, because we are assured of a thick covering of snow

from November until spring. In sections where there is alternate freezing and thawing it would probably be better to use a sash-protected frame, putting the sash on when hard freezes are imminent. Otherwise the plants would likely heave badly during the winter. That is only a conjecture on my part, however, for the cuttings might be sufficiently rooted before freezing weather to survive without the sash. With ordinary care about ninety per cent have enough roots by the time snow comes to this north country to survive the winter and be ready for lining out the next spring.

## Mother-of-thyme.

Although the ancients saw less virtue in thyme than in most ar-

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24 to 26 cm., 200 per case	18.00	32.50
26 to 28 cm., 150 per case	22.00	32.50
28 to 30 cm., 100 per case	32.00	30.00
30 to 32 cm., 100 per case	36.00	32.50
32 to 35 cm., 75 per case	42.00	30.00
35 cm. and up, 50 per case	27.50	

Lilium Regale. Oregon-grown		
	Per 100	Per case
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6 to 7-in., 300 per case	9.00	25.00
7 to 8-in., 250 per case	12.00	27.50
8 to 9-in., 200 per case	15.00	27.50
9 to 10-in., 150 per case	20.00	27.50
10-in. and up, 100 per case	30.00	27.50

Lilium Rubrum. Oregon-grown		
	Per 100	Per case
7 to 8-in., 300 per case	30.00	
8 to 9-in., 250 per case	45.00	
9 to 10-in., 200 per case	55.00	

Lilium Estate. Oregon-grown		
	Per 100	Per case
6 to 7-in., 300 per case	18.00	50.00
7 to 8-in., 250 per case	22.00	50.00
8 to 9-in., 200 per case	35.00	65.00
9 to 10-in., 150 per case	45.00	60.00
10 to 11-in., 100 per case	55.00	50.00

Lilium Croft. Oregon-grown		
	Per 100	Per case
7 to 8-in., 250 per case	24.00	55.00
8 to 9-in., 200 per case	35.00	65.00
9 to 10-in., 150 per case	45.00	65.00
10 to 11-in., 100 per case	55.00	50.00

### LILY OF THE VALLEY

Imported Danish pips. Selected forcing grade. Available from cold storage from January on.

\$45.00 per case of 500.

## CALLAS

Aethiopia. Large White		
	Per 100	Per 1000
1 1/2 to 1 3/4-in.	\$16.00	\$150.00
1 3/4 to 2 -in.	21.00	200.00

Alba Maculata. White, Spotted Leaf		
	Per 100	Per 1000
1 3/4 to 2 -in.	11.00	100.00
2 to 2 1/2-in.	16.00	150.00
2 1/2 to 3 -in.	26.00	250.00

Elliottiana. Yellow, Spotted Leaf		
	Per 100	Per 1000
1 3/4 to 2 -in.	11.00	95.00
2 to 2 1/2-in.	17.00	160.00
2 1/2 to 3 -in.	30.00	290.00

Rehmanni Superba. Pink		
	Per 100	Per 1000
1 1/4 to 1 1/2-in.	11.00	95.00
1 1/2 to 2 -in.	15.00	140.00
2 to 2 1/2-in.	21.00	200.00

## ASTILBE

(Herbaceous Spiraea)

Heavy, well eyed, forcing clumps.

	Per 10	Per 100
Fanal. Deep red	\$4.00	\$35.00
Gladstone. White	4.00	35.00
Peach Blossom. Pink	4.00	35.00

## BLEEDING HEART

(Dicentra Spectabilis)

	Per 10	Per 100
3 to 5 eyes	3.50	30.00
5 to 8 eyes	4.50	40.00

## PEONIES

Strong, 3 to 5-eye divisions

Cornelia Shaylor.		
Rose and white.		
Duchess de Nemours.	\$ 4.00 per 10	
Sulphur-white.	35.00 per 100	
Mme. de Verneville.		
Early white.		
Duchess de Orleans.		
Late pink.	\$ 3.50 per 10	
Edulis Superba. Early pink.	30.00 per 100	
Queen Victoria.		
Flesh-white.		
Felix Crousse.		
Deep red.		
Festiva Maxima.	\$ 5.50 per 10	
Early white.	50.00 per 100	
Mrs. Elbert Dunlap.		
Yellow.		

## JAPANESE PEONIES

Nippon Beauty. Out-		
standing red, some		
yellow on center		
petaloids.	\$ 5.00 per 100	
Nippon Maid. Rich,	45.00 per 100	
deep red.		
San Diego. Striking red		
and yellow bicolor		
variety.		

## PEONY COLLECTION

Especially designed for florists, this collection contains varieties which cut and keep well. Collection contains 100 3 to 5-eye divisions, as follows:

25 Duchess de Orleans.	
Deep pink. Late.	
25 Edulis Superba. Bright pink.	
Early.	
25 Felix Crousse. Deep red.	
Midseason.	
25 Mme. de Verneville.	
White. Early.	
PRICE: \$32.50 per collection.	

## TREE PEONIES

The following are 1-year-old grafts on herbaceous peony roots. 2-year-old, and 3-year-old grafts are also available. List of varieties and prices on application.

Hanadaijin. True purple.	
Higuresi. Bright crimson.	
Hodai. Carmine.	
Jitugutunisiiki. Purplish-red, tipped white.	
Tamahuyo. Early light pink.	
Yatitotubaki. Pink.	
\$12.50 per 10; \$100.00 per 100.	

## NARCISSUS

PAPER WHITE

True Grandiflora. Imported Stock.

	Per 100	Per case
12 to 13 cm., 1500 per case	\$3.50	\$45.00
13 to 14 cm., 1250 per case	4.00	45.00
14 to 15 cm., 1000 per case	5.00	45.00
15 to 16 cm., 900 per case	5.50	45.00

## ROMAN HYACINTHS

Imported Stock.

	Per 100	Per case
WHITE		
12 to 13 cm., 1500 per case	\$ 5.50	\$75.00
13 to 14 cm., 1250 per case	8.00	95.00
14 to 15 cm., 1000 per case	10.50	95.00

## LYCORIS SQUAMIGERA

(Amaryllis Halli)

A truly hardy Amaryllis that has survived Michigan's severe winters without mulching. Foliage disappears in late spring, and the flower spike, bearing umbels of beautiful lavender flowers, literally springs from the ground in midsummer, thus earning the name "Magic Lily". Large 8 to 10-inch bulbs will produce strong flower spikes on a desk, without benefit of soil or water.

	Per 100	Per 1000
5 to 6-in.	\$12.00	\$100.00
6 to 7-in.	15.00	125.00
7 to 8-in.	30.00	250.00
8 to 10-in.	50.00	400.00

## BLETILLA HYACINTHIANA

(Chinese Terrestrial Orchid)

Dainty mauve flowers, resembling miniature orchids, are borne on short stems. Can be grown indoors, and pre-cooled stock can actually be forced into bloom for Christmas. An ideal small pot plant. Can also be grown outdoors in rock gardens or borders. Not hardy in northern latitudes.

	Per 100	Per 1000
Forcing size	\$15.00	\$125.00
Flowering size	12.50	100.00

## AMARYLLIS

Mead Strain. Giant American Hybrids.

	Per 100	Per 1000
Mixed Colors.		
2 1/4 to 2 1/2-in.	\$14.00	\$120.00
2 1/2 to 2 3/4-in.	16.00	150.00
2 3/4 to 3 -in.	21.00	200.00
3-inch and up.	30.00	290.00

Separate Colors.

	Per 100	Per 1000
Solid Red, Orange-pink and White, Pink, near White.		
2 1/2 to 3-in.	\$6.00	\$50.00
3-in. and up.	8.00	70.00

## LYCORIS RADIATA

Bright red.

	Per 100	Per 1000
4 to 5-in.	\$10.00	\$75.00

## WEST COAST DAFFODILS

	Per 100	Per 1000
King Alfred. Jumbo size.	\$11.00	\$100.00
King Alfred. XXX Grade.	9.50	85.00
King Alfred. XX Grade.	7.50	65.00
King Alfred. X Grade.	5.00	40.00
Golden Harvest. D.N. I.	11.00	100.00
Golden Harvest. D.N. II.	9.50	85.00
Mixed Daffodils.		
10 to 14 cm.	3.50	30.00

## WEST COAST IRIS

	Per 100	Per 1000
Wedgwood. 8 to 9 cm.	\$2.00	\$17.50
Wedgwood. 8 1/2 to 9 cm.	3.00	25.00
Wedgwood. 9 to 10 cm.	5.00	42.00
Wedgwood. 10 to 11 cm.	6.00	55.00
Imperator. 6 to 7 cm.	2.00	15.00
White Superior. 6 to 7 cm.	3.50	27.50
Yellow Queen. 6 to 7 cm.	3.50	27.50

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- \* Coniferous Evergreens
- \* Flowering Shrubs

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A complete line of well grown hardy plant material  
Evergreens and Lining-out Stock

matic plants, they valued it as an antidote against the biting of any venomous beast, as Gerard put it. They also found thyme, especially mother-of-thyme, *Thymus serpyllum*, a useful garden plant. Instead of the two kinds of *T. serpyllum* mentioned by Gerard and others of his day, we now have a myriad forms, as the result of following the wanderings of the species over the valleys, hillsides and low mountains of temperate Europe, Asia and northern Africa. That condition has made life more difficult for the botanists, who have felt the urge to ferret out the relationships of the different kinds. It has made gardening more pleasant, however, for the gardener with dry sunny spots to clothe in pleasing, fragrant herbage and in flowers of different shades.

It may be that the botanists have straightened out the puzzle to their own satisfaction. If so, they have apparently failed to satisfy each other as to the correctness of their interpretations, as one may verify by consulting different authorities when trying to identify plants. When the experts disagree, a mere gardener can only hope that he is not too far wrong when he labels his plants.

The varying quality of *T. serpyllum* has been, as was previously mentioned, a godsend to the gardener. A little searching will reveal a form for most garden purposes, so long as the situation is sunny and well drained and one does not want tall plants. On the other hand, if one wants a close, dense carpet to cover the spaces between steppingstones, to plant in the crevices of the paved terrace, or to serve similar roles, he will find it in varieties like *albus*, *coccineus*, *lanuginosus* and *minus*, all ground-hugging plants of more or less dense growth.

*Thymus albus* is, as its name implies, a white-flowered variety, with pale green leaves and a long blooming season. In addition to having the garden uses mentioned in the preceding paragraph, *T. albus* is highly useful as a ground cover over small, hardy bulbs that want shallow-rooting companions. As a wall plant it covers every crevice within its reach. Experience here tells me it is not so drought-resistant as most of its kind, needing some attention from the hose during long dry periods. It should not be used over *Iris reticulata*, *Mariposa lilies* and other bulbs that have to be kept dry during their dormant periods, which, unfortunately, correspond with the time that *T. albus* needs to be watered.

[Continued on page 49.]





## YEAR AFTER YEAR

*...the same customers*

Every bush now being grown in our fields at Hemet has already been allocated to a long-time customer. This year-after-year demand for our bushes is due to two things:

### 1. *An ideal growing climate*

Our growing fields are located in a mountain valley in Southern California, where the soil is extremely rich. The growing season is hot . . . and our bushes thrive under the desert sun and ample irrigation. However, the winters are cold. Thus we produce hardy, vigorous bushes "climatized" to extreme temperature conditions likely to be encountered anywhere in the United States.

### 2. *We don't rush the season*

Only when all of the bushes in our fields are dormant do we begin digging. This means that our customers not only get rose bushes that are hardy and mature . . . but bushes that are completely dormant and certain to grow.



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# Tree Maintenance

By Noel Wyszong

## PLANT INJURY FROM FALL FREEZING.

Those of us whose work and interests lie mostly in nurseries and the care of trees in private estates, parks and city streets usually think of winter injury in connection with single specimens or, at best, a few planted trees rather than with a forest area. Apparently, it can affect forests also. In a recent trip through Colorado it was observed that vast areas of forest in the vicinity of Longs peak and the mountainous country surrounding Rocky Mountain National Park exhibited damage that in every way appeared characteristic of winter injury. The injury seemed to be confined largely to the pine species. Inspection of individual needles revealed that the tips and margins were browned, giving the trees a peculiar brownish-green cast when viewed from a distance. No evidence of injury to the trunks or branches was found. Residents in the general area remarked on the browning of the evergreens and said they did not remember any such occurrence in previous years. It seems more than likely that these pines will fully recover, but it would be interesting if our Colorado readers would check and give us a report on the situation.

A considerable number of dead or dying fruit trees, among them cherries, peaches and the like, also were seen standing in small, back-yard orchards between Denver and Estes Park. Inquiries revealed that a short period of severely cold weather had occurred early last fall, and the death of many fully mature, bearing fruit trees was attributed to the sub-freezing temperatures which occurred at that time. We are led to wonder if this cold snap could also be the cause of the injury to the forest pines.

Damage to plants from freezing weather that occurred last fall before plant growth had become truly dormant was not confined to the Rocky mountain area. In Wisconsin, north of Madison, there are great stretches of forests composed of hardwoods and conifers in mixed stands, wherein most of the foliage on the lower branches of the oaks and other deciduous species is withered and brown. The twigs of these branches are dead or dying, and this condition

is attributed to freezing temperatures of last fall. There appears to be little or no injury to the conifers, and the upper crown of the oaks and other broad-leaved species is normally green and healthy. Reports also have been received from Kentucky and Tennessee of injury to yews, hemlocks, pines, holly, dogwood and oaks attributed to a sudden and severe drop in temperature last fall. It is said that many broad-leaved evergreens were killed to the ground, but that new growth has sprouted from the base. N. W.

## OAK WILT DISEASE.

At the meeting of the advisory committee on oak wilt research held May 8 at Chicago, one new and rather important fact concerning the disease was disclosed; namely, the fungus which causes the disease had, in at least one instance, been isolated from logs cut some nine months previously from infected trees. Under the proper conditions, the fungus taken from these logs was capable

of causing infection in other oaks. This means that logs cut from diseased trees may be a source of infection for at least nine months and possibly longer, and that, perhaps, the disease may be transmitted by natural means from such logs to living, healthy oaks and cause their death.

It is not yet known how oak wilt disease is transmitted over long distances. It is possible that it may be carried by insects, birds or some other natural agency that might have access to the spores or mycelium of the fungus in the tissues of cut logs. Until it has been proved that such is not the case, logs taken from infected oaks must be viewed with suspicion.

This does not mean that the logs cannot be utilized for fence posts, rails, lumber, construction timbers and other purposes. There is no evidence, to date, that the oak wilt fungus penetrates wood tissue which was formed prior to the time of infection; it has been found, so far as

## TRANSPLANT NOW

All items noted below can be safely transplanted into beds now.

### Ilex Bullata

One of the new varieties of Jap. Holly in great demand. It has small, shiny, convex leaves. Grows rapidly at first, then slows down. Shears well. It can be used in sun or shade and contrasts well with both broad-leaved and narrow-leaved evergreens. It makes the finest low evergreen hedge. Easy to grow, and faster than yews. Sells on sight.

	Per 100
4 to 6 ins., 2-yr. T.	\$15.00
6 to 8 ins., 2-yr. T.	\$20.00
8 to 10 ins., 2-yr. T.	\$25.00

AZALEA Hlnodegirl,	Per 100
3 to 6 ins., 2-yr. T.	\$15.00
6 to 8 ins., 2-yr. T.	\$20.00
IVY, Baltic, 2-yr. R.C.	6.00
BOXWOOD, English, 3 to 4 ins.	10.00
BOXWOOD, American, 4 to 6 ins.	10.00
6 to 8 ins.	15.00
ILEX crenata, 4 to 6 ins., 2-yr. T.	15.00
6 to 8 ins., T.	20.00

### Pieris Japonica

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form, in graceful racemes for next spring's flowers. White lily of the valley like flowers appear with the first warm weather and flowers often last 6 weeks. Grows well in sun or shade. Makes a nice contrast with azaleas and rhododendrons.

	Each
4 to 7 ins., TT.	\$5.15
7 to 9 ins., TT.	\$9

### Leucothoe Catesbaei

A good broad-leaved evergreen that grows in dense shade; lily of the valley like flowers, reddish-bronze foliage in winter. Contrasts well with azaleas and rhododendrons. Fine for flower arrangements.

	Each
6 to 8 ins., T.	\$9.15

Send for List.

**ALANWOLD NURSERY**  
NESHAMINT, Bucks Co., PA.

## FALL DELIVERY

	Per 100	Per 1000
Jap. Red Maple, strong, select red.	\$ 20.00	\$175.00
Taxus C., strong 2-yr. sdigs.	10.00	90.00
Cornus Florida, 2-yr. sdiga.	10.00	
Viburnum Carlesii, 2-yr. sdiga.	25.00	
Azalea Mollis, best, 18 to 24 ins.	275.00	
Euonymus Alst. Comp., 2-yr. X	35.00	
Sequoia Gigantea, 1-yr. sdiga.	50.00	
Cash, please.		

## BRIMFIELD GARDENS NURSERY

245 Brimfield Rd.  
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## ROSA MULTIFLORA JAPONICA

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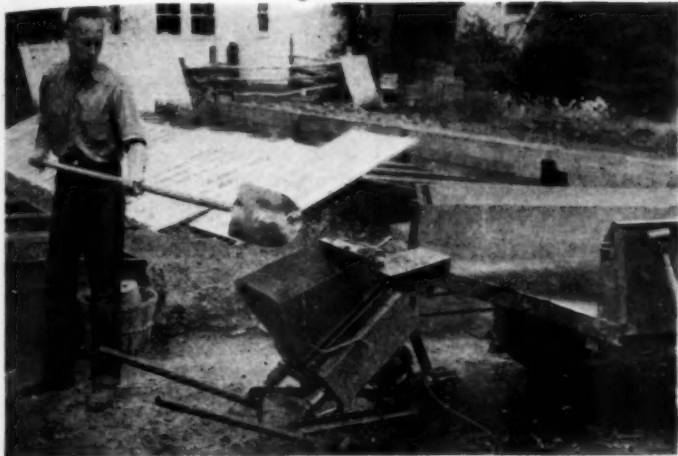
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**2-INCREASES  
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**3-REDUCES  
LABOR COSTS**

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One or two shovellers will produce all the compost you need...the machine does all the work, freeing available manpower for plant and flower care.

Illustrated is a Model C-Jr, 1 to 3 cu. yds. per hour capacity, at Woodside Gardens, Framingham Centre, Mass. Other models available in capacities to 16 cu. yds. per hour. Write for Bulletin 46.



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least, only in the outer rings of sapwood. Consequently, if the sapwood is slabbed off deeply enough to remove all of the infected wood, the remaining portion of the log should be perfectly safe for use. In the case of red oaks, which die quickly following infection, it probably would be sufficient to remove only enough of the sapwood to include the growth of the past two years. Since trees in the white oak group die more slowly, sometimes lingering several years after infection, the slabs probably should be thick enough to include at least the past five or six years' growth of sapwood. The slabs, of course, as well as the branches and twigs of the infected tree should be burned. It seems probable that pressure treatment of logs, from which the bark had been removed, with creosote or similar fungicide would kill the fungus in the wood tissues and render the logs safe for use. Even dip treatment of diseased logs might be effective.

It is possible, of course, that

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Visitors are always welcome at the nurseries. Drop in whenever you are in this area, and let us show you our stock.

### LEGHORN'S EVERGREEN NURSERIES

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## FOR FALL, 1951

We offer a nice assortment of:

### Seedlings

**Cuttings**, from 2¼-inch pots

**Juniperus virginiana**, transplanted understocks

**Kalmia latifolia**, 6 to 10-in. transplants

**Cornus florida rubra**, 1-yr. grafts

Our fall list will be out soon.

If you are not on our mailing list, send for a copy.

We shall have our usual line of grafted material for spring, 1952, delivery.

## HESS' NURSERIES

MOUNTAIN VIEW, N. J.

# WANTED

## Red Cedar Understocks

Quote Prices and Quantity Available.

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Splendid Stock

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further research may reveal such precautions unnecessary. But for the present it is better to do a little more work and be safe than to use diseased oak logs in their entirety or without subjecting them to fungicidal treatment and run the risk of causing infection to many more trees.

It is during July, August and early September that symptoms of oak wilt disease are most evident. The most noticeable symptom is the sudden discoloration of the foliage. The leaves of affected trees in the red oak group turn brown to bronze; those of bur oaks, swamp white oaks and others in the white oak group turn light brown or tan. The discoloration, closely resembling premature autumnal coloration, usually appears first in or near the top of the tree. In red oaks it progresses rapidly downward throughout the tree, and often all or most of the leaves drop within two to four weeks after the first browning foliage appears. In white oaks only a few branches may exhibit discolored leaves the first year after infection occurs, and many of these leaves, withered and dead, may remain attached to the branches.

Nurserymen, arborists and others interested in trees should be alert this year to report all suddenly dying oaks, particularly in areas where the oak wilt disease has not previously been reported. The state agencies which are presently engaged in research on the disease, with work centered in their respective departments of plant pathology, include Iowa State College, Ames; University of Minnesota, Minneapolis; University of Missouri, Columbia; University of Wisconsin, Madison, and Illinois Natural History Survey, Urbana. Engaged also in this work are the division of forest pathology, United States Department of Agriculture bureau of plant industry, Beltsville, Md., and the station at the University of Missouri, Columbia.

Reports of trees suspected of being infected with oak wilt, together with branch specimens if possible, should be sent to the nearest of the aforementioned agencies, or to your own state experiment station. N. W.

### CAUTION WITH 2,4-D.

In the use of 2,4-D, mistakes and accidents cannot be tolerated. This chemical is a killer of broad-leaved plants, as lethal when it is applied accidentally as when it is sprayed on with full intent to destroy. Arborists are fully acquainted with the damage that can result from spray



drift, careless handling of the spray nozzle, fumes from extremely volatile forms of 2,4-D and the use of 2,4-D-contaminated equipment in applying insecticides or fungicides. Plant injuries resulting from accidents of this nature can be avoided, and if they do occur the arborist usually is at fault. Less easily avoidable are accidents caused by mislabeling of containers.

Last summer, in response to an urgent request, an inspection was made of the premises of a homeowner in Chicago's North Shore area in which trees, shrubs, flowers and plants in the vegetable garden were dying. Hawthorns, flowering crabs, young elms, a pear tree on which unripened fruit was still hanging, honeysuckle and other woody plants were partially or completely defoliated, with succulent twigs curling and blackening. Tomato vines were wilted, with the stems distorted and twisted in a manner characteristic of 2,4-D injury. The leaves of iris plants bordering a flower bed showed little or no evidence of injury, but the roots were decaying and disintegrating. Some rosebushes were damaged, while others appeared to be unaffected. Foundation evergreens exhibited no signs of damage.

Inquiry brought the information that the entire premises had been sprayed, presumably with a well known nonphytotoxic insecticide. It was claimed by the sprayer operator that the metal containers, in which the material was purchased, had been so labeled. The operator, the dealer from whom the material had been purchased and the manufacturer all bore most excellent reputations, yet the insecticide clearly was a potent formulation of 2,4-D. Somewhere along the line a mistake had been made, and the homeowner's plants died because of it.

This case serves well to illustrate the need for the most rigid precautions on the part of the manufacturer, the dealer and the arborist. Perhaps an occasional mistake of this nature is unavoidable, but try to tell that to the homeowner whose plants have been killed!

N. W.

### IMPROVED EQUIPMENT FOR PEST CONTROL.

Electricity is one of the natural phenomena about which those who seek to control plant diseases and insect pests usually know little. Except for use in connection with the operation of motors and perhaps some abortive attempts to kill fungus

# PEONIES

Standard 3 to 5-eye divisions, from young healthy plants.  
For Fall, 1951, or Spring, 1952, Delivery

Per 10 Per 100

Baroness Schroeder. (9.0) Very large double type; blooms late mid-season. Blush, opening to creamy-white; fragrant. Blooms are long-lasting	\$4.50	\$40.00
Duchesse de Nemours. (8.1) Medium tall plant with erect, strong stems. Large double type; pure white blooms. Early bloomer; fragrant	4.00	35.00
Duke of Wellington. (7.8) White, double-type flowers. Early bloomer	3.70	32.00
Eduis Superba. (7.6) Very double, very early type of medium size. Clear, deep pink blooms; tall plants. Desirable for cut flowers.	3.70	32.00
Felix Crousse. (8.4) Blooms late midseason. Large, double-type blossoms of bright ruby-red.	4.00	35.00
Festiva Maxima. (9.3) Very large, globular, double-type flower of white with flecks of crimson on center petals. Early bloomer. Very popular	4.50	40.00
Fontenelle. Large, dark red, excellent for cutting; midseason.	4.50	40.00
Francois Orlegat. (6.7) Midseason blooms of deep crimson.	3.70	32.00
James Kelway. (8.7) Large, fluffy, double-type flowers of pale pink become white with age. Blooms early midseason. Tall stems.	4.50	40.00
Karl Rosenfield. (8.8) Clear, bright crimson blooms of the double type. Tall, free-flowering plant with strong stems and good foliage. Reliable bloomer	4.00	35.00
Marie Lemoine. (8.5) Lemon-white when first open; gradually changes to pure white. Large, fragrant blooms; late bloomer. Strong stems.	4.00	35.00
Mary Brand. (8.7) Large, rose-type bloom of dark clear crimson. Fragrant; free-flowering; strong stems. Good both as a cut flower and garden decoration	4.50	40.00
Mme. Emile Galle. (8.5) Delicate rose-pink color, fairly fragrant. Large flowers are of the double type; blooms midseason. Good stems and foliage	4.50	40.00
Mme de Verneville. (7.9) Free-flowering plant with light green foliage. Large, bluish-white bloom with crimson marks on tips of some petals. Roselike fragrance. A very good cut flower.	4.00	35.00
Mons. Jules Elie. (9.2) Very large, double-type blooms of light rose-pink borne on tall stems. Moderately fragrant, blooms early. Most effective as cut flower.	4.50	40.00
Sarah Bernhardt. (9.0) Appleblossom-pink with silver tinge along edge of petals. Blooms are very large and of the double type. Midseason	4.50	40.00
Therese. (9.8) Very large, double-type blooms have enormous, long petals of pale old rose pink paling toward base. Heavy foliage and strong stems	6.50	60.00
Walton Faxon. (9.3) Distinctive shell-pink color; blooms are of the double type and are mildly fragrant. Blooms midseason.	5.50	50.00

## JAPANESE IRIS (Kaempferi)

The most beautiful of all iris, yet little known. Admired by all who see it. Blooms in June and July when other iris are through blooming. Large, flat, showy flowers atop tall, strong stems—2 or 3 buds to each stem. Flowers bear a remarkable resemblance to orchids.

Per 10 Per 100

Ben Chadai. Double, dark mahogany-purple with white base to each petal	\$2.10	\$18.00
Catherine Parry. Double, blue overlaid red.	2.10	18.00
Data Dagui. Lavender-blue and white.	2.40	20.00
Gold Bound. Fine double, pure white with gold-banded center.	2.40	20.00
Kagari-bi. (Torchlight) Six petals, light wine-red, lighter veins, yellow spot at bottom of each petal.	2.10	18.00
Koko-No-Iro. Violet-purple, golden throat. Double.	2.10	18.00
Mahogany. Purple mahogany red. Double.	2.40	20.00
Momyi-No-Taki. Double, deep royal red.	2.10	18.00
Mrs. Geo. Stump. Giant white, creped petals, double.	2.40	20.00
Norma. Double, pink with blue base.	2.40	20.00
Patrocle. Superb dark violet. Single.	2.10	18.00
Pluton. Three petals, mahogany.	2.10	18.00
Purple and Gold. Double, rich purple, gold throat.	2.10	18.00
Rose Anna. Double white with red veins.	2.10	18.00
Sea Crest. Double blue and white.	2.40	20.00

Complete Price List ready now. Copy on request.

## WILLIS NURSERY CO.

"Your Wholesale Nurserymen"  
OTTAWA, KANSAS

## LINING-OUT STOCK

### Two-year Grafts in:

Lilacs in Choice Varieties  
(true-to-name)  
Purple Beech Riversi  
Red Japanese Maple  
Wistaria Rosea (pink)

### One-year Grafts in:

Koster Blue Spruce  
Lilacs in Choice Varieties  
(true-to-name)  
Lilac, Firmament  
(new Delphinium-blue)  
Viburnum Carlesi

### Two-year Transplants in:

Cotoneaster Divaricata  
Euonymus Vegetus  
Ilex Convexa (cuttings)  
Taxus Cuspidata (spreading)  
Taxus Hatfieldi

### One-year Transplants in:

Forsythia Spring Glory (new)  
Juniperus Hetzi  
Juniperus Meyeri  
Kolkwitzia amabilis  
(Beauty Bush), branched,  
12 to 18 ins.

Magnolia Soulangeana  
(grown from cuttings)

### One-year Seedlings in:

Cornus florida (white)  
12 to 15 ins.  
Prunus maritima, strong,  
6 to 9 ins.

## SALABLE STOCK

DDT-treated to be shipped outside beetle area.

Taxus Cuspidata (spreading),  
15 to 18 ins. and 18 to 24 ins.

Taxus Hatfieldi,  
18 to 24 ins.

Ask for Complete List on LINERS and FINISHED STOCK. Your inspection is cordially invited at any time.

## C. HOOGENDOORN

Turner Road Newport, R. I.

### BURR

Leading wholesale source for  
Nursery Stock

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C. R. BURR & CO., INC.  
Manchester, Conn.

organisms in wood tissue, the principles upon which electricity is based have not been considered important in the field of plant disease and insect control. It remained for Henry D. Bowen, graduate research assistant at Michigan State College, East Lansing, to point out the error in such thinking.

Noting that an electrical precipitation process is used by many factories to prevent the escape of soot particles from smokestacks, Mr. Bowen devised a method whereby insecticidal or fungicidal dust particles emitted from plant-dusting machines are so charged with electricity that they adhere much more readily to plant stems and leaf surfaces than does untreated dust. It appears that plants develop the opposite electrical charge, thus attracting the dust particles. It has been reported that eleven times as much charged dust was deposited on plants four feet from the nozzle as was deposited when uncharged dust was blown through the same apparatus, and that the accumulation of charged dust on plants thirty-two feet from the machine was greater than that of uncharged dust on plants only four feet away. It is said that the apparatus necessary to produce electrically charged insecticidal and fungicidal dusts can be installed on standard commercial dusting machines at a reasonable cost.

It is expected that the process developed by Mr. Bowen will be thoroughly tested this summer. If it proves successful under field conditions, there is every reason to believe it will be developed to the point where it can be used to advantage by arborists. N. W.

### RAIL FREIGHT RATE HIKE.

New railroad freight rate increases ranging from six to nine per cent were authorized August 8 by the Interstate Commerce Commission. The nine per cent advance is to be applied in territory east of the Mississippi river and north of the Ohio, and Potomac rivers, while the six per cent increase would apply elsewhere in the country.

In issuing the authority, the I.C.C. listed a number of maximum increases that can be applied to about a half-dozen commodities.

The new rates become effective fifteen days after the railroads file official notice of the boost.

A NEW nursery has been started by Norman Derstine, E. M. C., Harrisonburg, Va.

## PINES

Mugho Pine. Very flat, slow-growing type.

	Each
800 10 to 12 ins.	\$1.50
300 12 to 15 ins.	2.25

### Scotch Pine.

200 18 to 24 ins.	1.50
300 2 to 3 ft.	2.00

### Red Pine.

300 18 to 24 ins.	1.50
700 2 to 3 ft.	2.00
300 3 to 4 ft.	2.75
250 4 to 5 ft.	4.00

### White Pine.

300 18 to 24 ins.	1.50
400 2 to 3 ft.	2.00
275 3 to 4 ft.	2.75
300 4 to 5 ft.	4.00
200 5 to 6 ft.	5.00

These pines, completely nursery-grown from seeds, have all been moved several times, the last transplanting being made within two years. They dig with a compact ball and can be wrapped with Dutch burlap. All plants are fully furnished and well shaped. They should be shipped by truck.

Digging starts August 15. Orders can be accepted for fall shipment only. Your inspection of these blocks is invited, but if this is impossible we will be glad to send you snapshots of the trees.

## Sudbury Nurseries, Inc.

Rt. 27

South Sudbury, Mass.

## LINING-OUT STOCK

### IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

## DEERFIELD NURSERIES

DEERFIELD STREET P. O., N. J.

### PACHYSANDRA

The ideal permanent evergreen ground cover plant for shady areas in all climates. Strong, well rooted, 1-yr.-old plants, \$3.75 per 100; \$35.00 per 1000; \$32.50 per 1000 for 5000 or more. Prompt shipment anywhere.

PEEKSKILL NURSERY SHRUB OAK, N. Y.

## ECONOMIC CONTROL LAW.

President Truman on July 31 signed the compromise economic controls bill finally approved by Congress. The President said he would have vetoed the bill had it not continued rent controls, government authority over defense production and materials and aid to business for national defense, all of which would have expired had he not signed the bill.

Upon signing of the bill, the federal reserve board announced changes in its consumer credit regulations in accordance with the new law, including extending the payment period for automobiles from fifteen to eighteen months, retaining the one-third down payment, reducing the down payment for household appliances from twenty-five to fifteen per cent and extending the pay-off period on such appliances, including radio and television sets, from fifteen to eighteen months.

In addition to the required revision in consumer credit controls, the federal reserve board extended the payment period for home improvement loans from thirty to thirty-six months, retaining the ten per cent down payment.

The board announced that as of May, 1951, the total volume of consumer credit in the United States was \$19,184,000,000, of which \$13,000,000,000 were in the form of installment loans.

Principal features of the new controls law signed by the President included:

1. Authority to roll back prices to pre-Korea levels, plus allowances for materials, labor, distribution, selling and other costs. The OPS had been allowing only materials and labor cost increases.

2. A twenty per cent increase in rents over the July, 1947, level. It would include increases authorized since that date. Areas removed from controls under local option provisions of the federal law could be put back under control if found to be "critical defense" areas.

3. Denial of authority to the President to pay subsidies to "high cost" producers of any but nonagricultural raw materials, to license businesses subject to price control and to build and operate government-owned defense plants.

PARENTS of a son, David, born July 22, are Mr. and Mrs. James S. Campbell, of Campbell's Native Nursery, Franklin, Va.

## Another NEW Sales Aid!



	PLANTING DATE	ESTIMATED BLOOM DATE	HEIGHT AT BLOOM	NO. BULBS PER FOLDER	PRICE PER FOLDER	PRICE PER BULB	REMARKS
<b>CROCUS</b>	Sept. 1-Oct. 15	March 15-Apr. 1	12"	10	1.00	10¢	See folder for varieties
<b>DAFFODILS</b>	Sept. 1-Oct. 15	March 15-Apr. 1	12"	10	1.00	10¢	See folder for varieties
<b>HYACINTHS</b>	Sept. 1-Oct. 15	March 15-Apr. 1	12"	10	1.00	10¢	See folder for varieties
<b>TULIPS</b>	Sept. 1-Oct. 15	March 15-Apr. 1	12"	10	1.00	10¢	See folder for varieties
<b>SCILLA</b>	Sept. 1-Oct. 15	March 15-Apr. 1	12"	10	1.00	10¢	See folder for varieties
<b>ALLIUM</b>	Sept. 1-Oct. 15	March 15-Apr. 1	12"	10	1.00	10¢	See folder for varieties
<b>SNOWDRIFT</b>	Sept. 1-Oct. 15	March 15-Apr. 1	12"	10	1.00	10¢	See folder for varieties
<b>TRILLIUM</b>	Sept. 1-Oct. 15	March 15-Apr. 1	12"	10	1.00	10¢	See folder for varieties
<b>VERBENA</b>	Sept. 1-Oct. 15	March 15-Apr. 1	12"	10	1.00	10¢	See folder for varieties
<b>ANEMONE</b>	Sept. 1-Oct. 15	March 15-Apr. 1	12"	10	1.00	10¢	See folder for varieties

"10 Golden Rules for Bulb Growing" tells how to plant 14 kinds of bulbs. Saves your time answering questions. Encourages customers to buy more bulbs. 50 FREE with each Dealer's Sales Kit.

This Decalcomania is printed in attractive colors—free for your store door or window, to tie in with our national advertising.



GENUINE IMPORTED BULBS Sold Here

# Holland Bulb LEAFLETS with Planting Chart

# FREE

## with each Dealer Sales Kit

Colorful Wall Posters, Window Streamers, Counter Display Card, and Window Decalcomania to decorate your store, attract more gardeners, and sell more bulbs.

### Additional Aids at Nominal Cost

New 1951 Folders in natural color show many uses of Tulips, Hyacinths, Daffodils, etc. — sell more bulbs. 189 color prints of individual varieties for bulb bins or wall display. Write for folder offered below.

Use These Sales Helps to Sell More

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Send me your descriptive folder and order form for 1951 Holland Bulb Sales Aids.

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## QUEEN O' the LAKES

(Dark Velvety)

and 30 other fragrant

### SUB-ZERO HYBRID TEAS

Large and beautiful as any. Easy to grow; long to live. Bloom more; more constantly. Save replacement expense.

Also 20

Yellow and Orange Climbers  
Write for trade prices to

**BROWNELL ROSES**  
LITTLE COMPTON, R. I.





# This Business of Ours

*Reflections on the Progress and Problems of Nurserymen*

By E. Sam Hemming

## NURSERY EFFICIENCY.

By the nature of our business it is always extremely difficult to adopt any procedure, method or process that will affect production enough to make itself noticeable on the profit-and-loss statement. Only in the largest wholesale nurseries is any streamlining or mass production possible. Even there the success or failure of a business does not seem to be entirely dependent upon efficiency, but rather upon a complexity of outside factors.

I am reminded of a yarn my father used to tell me about a firm by which he was employed a good many years ago. In its day it was one of the top-notch firms of its kind and always prided itself upon being on its toes. In addition, it was at about this time that efficiency experts first came into prominence. The management was kept constantly alert to discover ways and means of correcting errors and making operations run more smoothly. Every time there was an unusual occurrence there would follow a conference and suggestions were made to provide for prevention of a similar occurrence in the future. For instance, for a while tools were being unaccountably lost or just plain neglected; so it was decided that a man would be hired to check out, check in and otherwise care for all tools. Of course, this reduced the number of neglected tools, but it soon became obvious that the man's wages were much more than the cost of neglected tools.

This firm continued its habit of alertness with all its problems, yet it eventually faded out of the picture for entirely unrelated reasons. The growth of the city around the business and lack of family cohesion among the owners were responsible.

Another piece of advice was called to my mind by our own situation this spring. When I was in school our agricultural economics professor said a farm with clean fence rows rarely makes money. This spring we were so busy that we were unusually late starting our cultivating, and, in addition, it was rainy. When we finally did bring the men in from landscape work, however, we soon made the nursery more presentable. About that time a customer stopped in and re-

marked that he had passed the nursery a week before and thought we had abandoned the place. When the nursery looks the worst, you may have the most money in the bank. You know it is possible in the nursery business to make a resounding profit in any one year, but, if you do, you will have to use it up in the next two or three years to repair the operations you have neglected.

Efficiency is, in many respects, more dependent on the health and spirit of yourself and your employees than it is on the way you use your energy or do your work. All of us, from necessity, are at one or more times in our lives overworked, but the long continuance of overwork is the utmost in inefficiency. I remember a customer coming one evening after dark to my home, for the office was closed, and being indignant when I refused to dig some plants or have them dug for him. Later on, when I went to see him about landscaping his home, he told me he had

moved from the city to recover from a breakdown. I am convinced that there are as many small businesses which fail or disappear because the owner tried too hard and became ill as there are those which fail because the owner was lazy or inefficient.

Another direction in which so-called efficiency or inefficiency is noticeable in the nursery business is in the temperament of the owner or manager. In one business the owner will be a good production man, but a poor financial manager; in another there will be a good salesman and a poor production man. It is a common fault to have a favorite phase of the business neatly streamlined and operating smoothly while the rest goes along as best it can. Businesses survive when operated that way, but usually do not thrive; the best ones are well balanced.

Real efficiency can be obtained, too, in many unorthodox ways. The boss who keeps his mind constantly on the job can easily lose out. Some-

## TAXUS

Finished Landscape Material, B&B, for Early Fall Digging.

1000 TAXUS CAPITATA. Upright Japanese Yew. Closely sheared compact specimens, XXXX, 2 to 4 ft.

1500 TAXUS HICKSI. Columnar Yew. XXX, 1 1/2 to 2 1/2 ft.

300 TAXUS HICKSI. XXXX, 2 to 3 ft.  
2000 TAXUS HATFIELDI. Upright Pyramidal, XXX, 1 1/2 to 2 1/2 ft.

Also 1000 COLORADO SPRUCE. Blue, Medium Blue and Green, XXX, 2 to 5 ft.

The above stock is offered for pickup at the nursery, not for rail shipment. Inspection invited.

## QUALITY LINERS

We will ship Lining-out Stock anywhere in the U. S.

TAXUS CUSPIDATA. Spreading. 2-yr., X; 3, 4 and 5-yr., XX.

TAXUS HICKSI. 4 and 5-yr., XX.

TAXUS HENRYI. Semispreading. 2-yr., X; 4 and 5-yr., XX.

TAXUS HATFIELDI. Upright. 4 and 5-yr., XX.

TAXUS WASHINGTONI. Golden. 4 and 5-yr., XX.

## BROOKFIELD GARDENS

Route 6 DELAWARE, N. J.

## Pennsylvania Evergreens

	Each
Rhododendron Maximum.	
B&B, 18 to 24 ins.	\$1.50
B&B, 24 to 30 ins.	1.75
Kalmia latifolia.	
B&B, 18 to 24 ins.	1.25
B&B, 24 to 30 ins.	1.35
All are cutback, collected Pennsylvania plants dug with a good ball of earth and roots. These are the nicest possible to obtain and are the result of 5 years of cutting back. A yearly supply of these sizes is now obtainable up to 1500 plants. Smaller sizes on request.	

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times the best ideas and plans come to you when you go fishing, sit in the shade of a tree or, as I like to do, stroll around the nursery with your hands in your pockets. Even in my mind there is a question as to whether the greater efficiency in manual labor comes from reduction of motion or changing from one job to another. The benefits of the latter are often obvious.

After all, we are in business to make a living, to raise our families and to live our life. It is good to do our job well and enjoy it, but business is a means to an end and not an end in itself.

E. S. H.

### MATURE PLANTS.

We grow so many dwarf plants and so many juvenile forms of forest trees that we sometimes forget how they look when they reach full maturity. It is then that these plants often develop a distinct character and beauty of their own, completely unlike their early forms; yet it is only when we find one of them in an arboretum or in an old garden that we realize its beauty. Here on the Eastern Shore of Maryland, where there are vestiges of gardens dating back 200 years, I am continually

Our Fall List has been mailed. If you have not yet received your copy, write for it. You will find many new and scarce items on it, such as:

**ANDROMEDA japonica.**

**AZALEA pontica, mollis and kaempferi** to name.

**CORNUS spaethi aurea.**

**CYDONIA**, in the latest novelties.

**FORSYTHIA Lynewood Var.**, a new introduction, the finest Forsythia in the trade.

**MAGNOLIA soulangeana and soulangeana nigra.**

**RHODODENDRON HYBRIDS** to name, in blue, orchid-blue, pink, deep red and light red colors, from 2-year grafts up to 2 ft.

**RHUS cotinus folius purpureus (rubrifolia)**, one of the finest foliage plants.

**SYRINGA**, in the leading varieties, strong salable plants from 2 to 3 ft.

**VIBURNUM bitchiuense**, sweetly scented pink-blush flowers, one of the finest Viburnums.

**PAEONIAS**, in variety, from 3 eyes and up.

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# HOLLY

## Hardy American Holly — Ilex Opaca Named Varieties

Grown by Holly Haven, Inc., of Whitesbog, N. J.; propagated from plants of the Miss Elizabeth C. White collection which are the result of 35 years of experimenting and selecting of Ilex Opaca for symmetry of growth, superior foliage quality, vigor and hardiness—they have not been hurt by occasional temperatures of 25 degrees below zero. In the female varieties, there is an abundance of bright red berries that emphasizes their free-fruited habits.

Many of the varieties offered have been developed and named by Miss Elizabeth C. White. Other named varieties are cuttings from plants that have been presented to Miss White by noted collectors.

The plants offered are from cuttings made in August, 1950, and potted this Spring. They are well pot-bound and ideal to line out in beds at this time.

**FEMALE OR BERRY-BEARING VARIETIES:** Betsy, Clark, Dorothy (weeping type), Farage, Manig, Osa, Sally, Sarah Higgins (limited), St. Mary.

**MALE** (very limited): Frank, Harry, Isaiah, John Higgins, Slim Jim.

These are offered at a very special price in order to make room for new propagation.

	Per 10	Per 100
Out of 3-in. pots, 6 to 9 ins.	\$4.00	\$30.00
Out of 2 1/4 and 3-in. pots, 4 to 6 ins.	3.00	25.00
	Per 100	Per 1000
1500 Ilex Crenata Convexa, out of 2 1/4 to 6-in. pots.	\$17.50	\$150.00



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NEW YORK 1, N. Y.

Agents for Holly Haven, Inc.

### THUJA OCCIDENTALIS COMPACTA ERECTA

(NEW)

We offer this new variety in rooted cuttings; also established stock from 2 1/4-in. pots.

Write for descriptive folder in color.

**THE WESTMINSTER NURSERIES**  
WESTMINSTER, MD.

### Evergreens

### Barberry

### Privet

Write for wholesale price list.

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Rocky Hill, Conn.



### PRINCETON NURSERIES

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**FAIRVIEW EVERGREEN NURSERIES**

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### Specializing in B&B Evergreens

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**LINDLEY NURSERIES, Inc.**

P. O. Box H

GREENSBORO, N. C.

coming across such plants. Naturally, very few plants are 200 years old, but even a 50-year-old plant is impressively mature.

Maturity is appealing in arbovitae, junipers and chamaecyparis, which we, in our present sophistication, are prone to look upon as plants of poor quality, as well as in the now-popular yews and their dwarf forms. I know of a picturesque, old, spreading American arbovitae that has become a feature in a garden.

At present we are overplanting with yews, but even the dwarfest of these will eventually grow quite large. The Irish yew does well here, but, by experience, we know it takes twenty years to grow a 48-inch specimen. Yet I know of two specimens of this variety that must be twenty feet in spread and thirty feet high and have lost their fastigate form. Just the other day I came across an English yew with a trunk at least thirty inches in diameter and probably forty feet high. The Japanese yew, too, will reach similar proportions, and so often the picturesque irregular form of the mature plant is more beautiful than the compact, symmetrical, juvenile forms.

The same is true of a number of our better slow-growing shrubs. In fact, their behavior is such that it is often difficult to know whether they should be called shrubs or trees. Although we know and use them as shrubs, they are often regarded in literature as trees. Examples are lilac trees; crape myrtle, which in the south reaches to forty feet; vitex; the smokebush, or smoke tree; certain magnolias, and viburnums.

Almost twenty years ago, in partial ignorance, I planted two Photinia serrulata with other plants in front of a porch which had pillars two stories high. Since then the other plants have disappeared, but the two photinias reach the top of the pillars, and, fortunately, because of the type of house, they still look attractive and are not out of proportion. Another broad-leaved evergreen that will make a picturesque and sizable tree where it is not winterkilled is the Japanese privet.

It is not so easy to take the mature appearance of plants into consideration when planting the small urban or suburban lot as it is when planting on the more extensive areas found on farms and estates, but it should be kept in mind wherever possible. On several occasions I have located a plant of the type that matures slowly among less permanent types of plants, which were later to be removed, and have ex-

plained the plan to the customer or client. It takes about twenty years for results of this planning to become effective, but, even with the vicissitudes of life and human nature, several of the plantings are beginning to produce the desired effect. In most cases it involves planting the trees and shrubs a disproportionate distance from buildings and, in certain cases, asking the client to be patient.

It is my firm belief that, despite all our big tree-moving equipment and abilities, we cannot move successfully many of our plants when they have matured enough to assume the picturesque character of old age. The difficulty in moving them is not a matter of size, but is rather the age. At this stage a plant does not have the resilience to recover completely, even though, if it is already growing in a certain position, its continued growth and life can be maintained seemingly for an indefinite period through care and cultivation.

It would seem relatively unimportant to most nurserymen to plan twenty, fifty or 100 years ahead for the plants they sell, yet as plant lovers we should not completely ignore the idea.

E. S. H.

#### NIAGARA FRONTIER GROUP.

After several preliminary organizational meetings, the Nurserymen's Association of the Niagara Frontier was established in April for the purpose of setting standards of ethics and fair practices, to increase the prestige and reputation of members in the eyes of the public and to provide for some sort of defense against unfair outside competition. The membership, composed of approximately thirty firms in the Buffalo area, voted to initiate a publicity program including advertisements in local newspapers and issuing publicity releases. An insignia has been adopted and distributed to members in the form of decals. Ellis Advertising Co., Buffalo, N. Y., has been hired as public relations counsel.

Officers elected to head the association in its first year are: President, Robert Auld, Auld's Delaware Garden Shop, Kenmore; vice-president, Howard Toy, Toy's Nursery & Garden Shop, Buffalo, and secretary-treasurer, Ruth Monin, Sheridan Drive Nursery, Kenmore.

LOCATED for more than sixty years at Boston, Mass., the Thomas J. Grey Co. has moved to Abington, Mass., and is now affiliated with the Littlefield-Wyman Nurseries.

## Protect your TREES with CHASE Spiral Tree Wrap



Both Tree Wrap and Nursery Squares made from crinkled kraft paper, laminated with asphalt. Special Wrap comes in easy-to-handle rolls, in varying widths. Protects against sun scald, severe frost, rodents, and abrasions. Maintains moisture content of bark.

### CHASE DUPLEX NURSERY SQUARES

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### LINING-OUT STOCK

Our new Fall, 1951, price list will be ready for distribution October 15. If you are interested in any special items, send us your list NOW.

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# New Books and Bulletins

## COLORADO HORTICULTURE.

The progress of gardening in the western portions of the country has been marked of late by the appearance of books on sectional conditions and problems.

"Rocky Mountain Horticulture Is Different," the latest of such books, bears the explanatory subtitle on the cover, "George Kelly's Garden Book." That is sufficient to assure its originality, its authenticity and its practical nature.

George Kelly, long experienced in Rocky mountain horticulture as a nurseryman, gave up his business, known as Arapahoe Acres Nursery, to become horticulturist for the Colorado Forestry and Horticulture Association, as well as editor of its Green Thumb magazine, and is known as the Mile-high horticulturist on radio station KOA, Denver.

This illustrated book of 160 pages, with paper cover, tells how Rocky mountain horticulture is different, the operation of gardening as carried on in that area and plants to fit the climate.

## CAMELLIAS AND MAGNOLIAS.

Periodically the Royal Horticultural Society holds conferences focusing attention on outstanding groups of plants. In April, 1950, such a conference was held at London, on camellias and magnolias.

The society's report of the conference is no less outstanding in binding, text and illustrations—a considerable number of the fifty-five plates are in color—and in the valuable information its 134 pages of text contain.

Dr. H. Harold Hume attended from America and presented a paper on forms of *Camellia japonica*. H. G. Hillier, a leading nurseryman in England, told of the propagation of camellias and magnolias. A half-dozen other papers were read on species and varieties of various groups of the two plants.

This valuable book for the specialist is priced at \$3 postpaid in the U. S. A. by the publisher, the Royal Horticultural Society, London, England.

## FENCES AND GATES.

Designed to help new homeowners who are fencing their properties, either ornamentally or otherwise, a

book of ninety-six pages, 8¼x10¾ inches, with stiff paper cover, has been published by the Lane Publishing Co., San Francisco, Calif., at \$1.50. The book contains many drawings and reproductions of 266 photos, showing the advantages and disadvantages of a large number of fences, from solid glass windbreaks to single-wire cattle enclosures. New England pickets, western grape stakes, paddock enclosures and patio fencing are a few of the 200 fences and gates illustrated and explained. Even the legal aspects of fencing are covered in this book.

## GARDENING IN MIDWEST.

Concise and practical instructions for the home gardener in the north central states appear in a paper-bound book of 104 pages called "Horse-Sense Horticulture," by Franc P. Daniels, published by the Minnetonka Publishing Co., Long Lake, Minn., at \$1. Mr. Daniels is well known for his nursery business at Long Lake and for his winter instruction of horticulture at the University of Minnesota. He has tried

## AMERICAN NURSERYMAN

to meet the questions of the gardeners in that difficult area and to present recommendations which are the result of his own practice.

Part I devotes twenty pages to the fundamentals—plant growth, soil, fertilizers, planting maintenance, propagation and pest control. Part II covers the ornamental garden, from landscape design to maintenance, with definite recommendations as to shrubs, vines, shade trees, evergreens, perennials and annuals for the middle northwest. Part III is devoted to fruit growing, and a few pages of vegetable growing constitutes Part IV.

Use of moderately small type, tables and concise wording have made it possible to pack into this booklet a great deal of advice and instructions for the midwest gardener.

## ROADSIDE DEVELOPMENT.

The proceedings of the tenth annual short course on roadside devel-

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opment, sponsored by the department of landscape architecture at Ohio State University in cooperation with the Ohio department of highways, have appeared in the form of a book of 186 pages, 8x10½ inches, containing much instructive material for nurserymen and others interested in roadside parks and improvements. The tenth short course was held April 4 to 7, 1951, with a total attendance of 282 from nineteen states and Canada.

Copies of the report may be obtained from Prof. Charles R. Sutton, department of architecture and landscape architecture, Ohio State University, Columbus, or Wilbur J. Garmhausen, chief landscape architect, Ohio department of highways, Columbus 15.

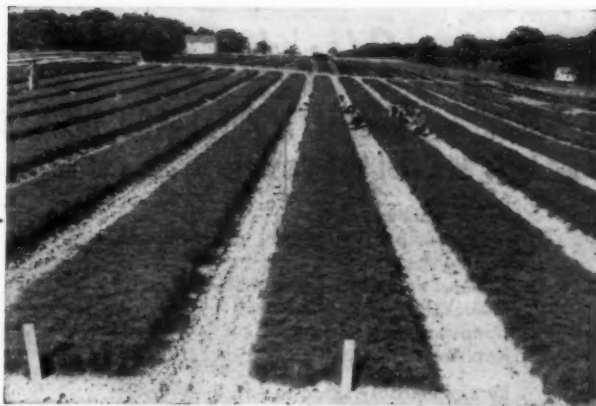
#### BULLETINS RECEIVED.

In a reprint entitled "Bromegrass as an Effective Agent in Quackgrass Control," A. R. Wolcott, of the Upper Peninsula experiment station, Chatham, Mich., reports experiments made at the station with seven forage crops and mixtures and a variety of planting dates. The 8-page article is reprinted from the May edition of the Michigan agricultural experiment station's quarterly bulletin.

In a 6-page article, "Control of Mossy Stoecrop (Sedum acre) and Certain Other Lawn Weeds," reprinted from the May edition of the Michigan agricultural experiment station's quarterly bulletin, Prof. Buford H. Grigsby, of the department of botany and plant pathology at Michigan State College, East Lansing, recommends some herbicidal sprays to kill a number of turf weeds not killed by ordinary lawn spray treatment.

In "Evaluation of Concentrate Spray Coverage on Large Apple Trees by Means of Leaf Prints," an 8-page reprint from the May quarterly bulletin of the Michigan agricultural experiment station, C. G. Klingbeil and Arthur E. Mitchell, both of the department of horticulture at Michigan State College, East Lansing, explain the use of spray concentrations at two times and four times conventional applications on apple trees for the control of apple scab and codling moth, with little fruit russetting.

An 8-page circular, No. 400, from the University of Wisconsin college of agriculture extension service, Madison, entitled "Wild Flowers on Wisconsin Farms," describes the four genera types of wild flowers and discusses measures which may be



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4-yr., T, 8 to 14 ins....	15.00	75.00

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 Glauca Juniper, 3 to 4 ft. and 4 to 5 ft.  
 Dundee Juniper, 3 to 4 ft.  
 Keteleer Juniper, 4 to 5 ft.  
 Pyramid Arborvitae, 3 to 4 ft. and 4 to 5 ft.  
 Globe Arborvitae, 15 to 18 ins. and 18 to 24 ins.  
 Dark Green American Arborvitae, 3 to 4 ft. and 4 to 5 ft.  
 Spreading Taxus, 18 to 24 ins. and 24 to 30 ins.  
 Hicks Taxus, 24 to 30 ins.  
 Upright Taxus, 3 1/2 to 4 ft. and 4 to 4 1/2 ft.  
 Hemlock, 3 to 4 ft. and 4 to 5 ft.  
 Taxus, Arborvitae, Euonymus, Cotoneaster, etc., L.O.

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BOXWOOD GARDENS

Mrs. R. P. Royce

High Point, N. C.

taken to conserve them. Author Robert A. McCabe also lists Wisconsin statutes designed to enforce their preservation.

Issued by the Connecticut agricultural experiment station, New Haven, as bulletin 548, "The Effects of Slash Mulch and Slash Burn on Pine and Spruce Plantings" is a report of experiments carried on over a period of six years at the station's forest plantations. The 20-page bulletin was written by Herbert A. Lund, of the department of soils.

## OBITUARY.

Mrs. Lucy W. Wheat.

Mrs. Lucy W. Wheat, 76, partner with her son, De Witt, in Riverside Nurseries, Phoenix, Ariz., died June 30 as the result of a fall. She had been in the nursery business in Phoenix since 1906.

She is survived by her son and two grandchildren.

Helen Grant Wilson.

Helen Grant Wilson, 59, garden editor of the Cleveland Plain Dealer, Cleveland, O., died July 17 at St. Luke's hospital there.

Miss Wilson's mother was garden editor of the Plain Dealer until she retired in 1937, when Miss Wilson succeeded her. Miss Wilson was a member of the American Rose Society, the Cleveland Rose Society, the American Horticultural Council and the Garden Writers' Association. She was a garden adviser at the Great Lakes Exposition and was much sought after as a garden lecturer and as a judge at flower shows.

Survivors are a brother, Carl Grant Wilson, nurseryman at Euclid, O.; two sisters, and several nieces.

## SEE BOTANICAL GARDENS.

Forty members of the North Jersey Metropolitan Nurserymen's Association accepted the invitation of Dr. P. P. Pirone and visited the New York Botanical Garden July 3. They met at Circle Greenhouse, Mountain View, N. J., at 9 a. m., and boarded a special bus, which arrived at the gardens in time for a morning tour. After luncheon at a small restaurant near the gardens, the tour was continued, with Dr. Pirone answering questions along the way.

E. S. Wyckoff, Sec'y.

OWNER of three acres of land at 21459 Center Ridge, Rocky River, O., John S. Tischler has applied for a state nursery inspection license for Johnny Tischler's Nursery.



## NURSERY COST FIGURES.

Some of the most accurate and thorough cost figures on nursery operations published in this magazine have been supplied by E. B. Stedman, Newfane, N. Y., who contributes here statistics taken from his cost sheet for the year, 1949. In the table on this page the first column indicates the percentages of the money actually expended in the operations indicated during the year. The second column shows the result when miscellaneous overhead has been added to the costs.

## COST SHEET—YEAR, 1949

Figures are percentage.

	Actual expenses	Actual expenses plus miscellaneous overhead
<b>OFFICE OVERHEAD</b>		
Salaries .....	10.6	9.3
Insurance .....	2.4	2.3
Interest .....	1.4	1.2
Rent .....	0.0	0.0
Taxes .....	1.6	1.4
Sales .....	3.5	2.9
<b>Total .....</b>	<b>19.5</b>	<b>17.1</b>

## PRODUCTION OVERHEAD

Motors .....	4.4	3.9
Repairs .....	1.5	1.3
Nursery Production .....	20.0	17.6
<b>Total .....</b>	<b>25.9</b>	<b>22.8</b>

## MISCELLANEOUS OVERHEAD

Stock Destroyed .....	3.5	
Depreciation .....	5.0	
Interest on Capital Investment .....	3.8	
<b>Total .....</b>	<b>12.3</b>	
<b>Total .....</b>	<b>45.4</b>	<b>52.2</b>

## CONDENSED OVERHEAD PRODUCTION ACCOUNTS

<b>Miscellaneous</b>		
Supplies .....	1.8	1.6
Perennials .....	1.4	1.2
Roses .....	1.0	0.9
Fruit .....	1.0	0.9
Other Sales .....	8.8	7.8
<b>Shrubs</b>		
Propagation .....	0.5	0.4
Transplants .....	0.2	0.2
Specimens .....	1.6	1.3
<b>Trees</b>		
Propagation .....	0.0	0.0
Transplants .....	0.2	0.2
Specimens .....	1.2	1.0
<b>Broad-leaves</b>		
Propagation .....	0.0	0.0
Transplants .....	0.3	0.3
Specimens .....	0.8	0.7
Christmas Trees .....	2.4	2.1
<b>Evergreens</b>		
Cuttings .....	7.2	6.4
Grafts .....	0.0	0.0
Seedlings (0) .....	0.6	0.6
Once Transpl. (X) .....	5.4	4.6
Twice Transpl. (XX) .....	3.0	2.5
Three Transpl. (XXX) .....	17.1	15.0
Four Transpl. (XXXX) .....	0.1	0.1

## CONDENSED PRODUCTION ACCOUNTS

<b>TOTAL .....</b>	<b>54.6</b>	<b>47.8</b>
--------------------	-------------	-------------

LINING-OUT STOCK  
FALL and SPRING

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	Per 100	Per 1000
Colorado Blue Spruce, 2-2, 9 to 12 ins.....	\$25.00	
Colorado Blue Spruce, 2-2, 6 to 9 ins.....	16.00	\$150.00
Colorado Blue Spruce, 2-2, 4 to 6 ins.....	10.00	80.00
Norway Spruce, 3-2, 4 to 8 ins.....	7.00	50.00
Norway Spruce, 3-0, 6 to 12 ins.....	6.00	35.00
Norway Spruce, 3-0, 3 to 6 ins.....	4.00	25.00
Black Hills Spruce, 3-2, 6 to 9 ins.....	15.00	140.00
Black Hills Spruce, 3-2, 4 to 6 ins.....	8.50	75.00
White Spruce, 3-2, 8 to 12 ins.....	10.00	80.00
White Spruce, 3-2, 4 to 8 ins.....	6.00	45.00
Mugho Pine, 2-2, bed run.....	10.00	80.00
White Pine, 2-2, 3 to 8 ins.....	10.00	85.00
Ponderosa Pine, 3-0, 6 to 12 ins.....	8.50	65.00
Norway Pine, 2-0, bed run.....	5.00	30.00
Banks Pine, 2-0, bed run.....	4.00	20.00
American Arborvitae, 2-2, 4 to 8 ins.....	6.00	40.00
American Arborvitae, 2-0, 2 to 6 ins.....	4.00	20.00
Douglas Fir, 2-2, 6 to 10 ins.....	9.00	75.00
Douglas Fir, 3-0, 3 to 6 ins. (Snowy Mt. variety).....	6.00	35.00
Taxus from seeds, 1-2, bed run.....	15.00	
European Mountain Ash, 2-2, 6 to 12 ins.....	7.00	50.00
White Birch, 2-1, 6 to 12 ins.....	9.00	75.00
White Birch, 3-0, 8 to 16 ins.....	7.00	50.00

## SCOTCH PINE SEEDLINGS

	Per 100	Per 1000
Scotch Pine, 2-0, 3 to 8 ins.....	\$5.00	\$30.00
2500 or more, \$28.00 per 1000.		
Scotch Pine, 2-0, 1 to 3 ins.....	3.50	20.00
4,000 or more, \$18.00 per 1000.		

Seeds for this stock are from the best European sources for color and other desirable Christmas tree characteristics.

**TERMS:** Cash with order, please, for Fall shipment; 25 per cent deposit for Spring shipment. 25 at 100 rate; 250 at 1000 rate. Not less than 50 of any seedlings. Minimum order, \$10.00.

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HARBOR SPRINGS, MICH.

WANTED for CHRISTMAS  
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Cut Scotch or Austrian Pine, 4 to 10 ft.

Cut Norway Spruce, 5 to 10 ft.

These trees must be well shaped, full and symmetrical. Tell us how many you can supply and quote price.

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## AMERICAN NURSERYMAN

### INDIANA ASSOCIATION TOURS VINCENNES.

Hosts for the summer meeting of the Indiana Association of Nurserymen, held August 1 and 2 at Vincennes, were Littleford Nurseries, Forbes Nursery and Simpson Orchard Co. The meeting began with an informal get-together at Forbes Nursery, two miles east of Vincennes, where refreshments were served.

About 100 persons had convened by 4 p. m., when a motorcade proceeded to the Simpson nursery and orchards, where they watched demonstrations and sampled fruit. Of particular interest was the tractor-drawn culti-cutter used to cultivate sod between mature trees. A brief tour of packing sheds was followed by an inspection of propagation and budding operations.

A banquet held at the Fortnightly Club in the evening was highlighted with fine entertainment and a report by Troy Bunch, of Terre Haute, on the convention of the American Association of Nurserymen at New Orleans. Among the most interesting of Mr. Bunch's observations were those concerning the new A. A. N. group insurance plan.

Vincennes is noted for its historic lore, and the committee of hosts made arrangements for a conducted tour of historic sites by public motor coach the morning of August 2. The tour followed the Old Post trail, making stops at the old cathedral, a beautifully preserved example of early churches in the territory; the George Rogers Clark Memorial, near Lincoln Memorial bridge, and the Territorial Capitol State Memorial. Now maintained by the state, the old Capitol building is remembered as the seat of the government of the Indian territory from 1800 to 1813. The William Henry Harrison mansion was also visited.

After a motorcade tour of Littleford Nurseries, which are now operated as two proximate branches, nurserymen enjoyed a lavish meal at the Lower Indiana Presbyterian church. Paul Ulman, assistant state entomologist, spoke briefly on winter injury and pest control throughout the state. President Robert Hoffman, of Hoffman's Nursery, Wabash, announced adjournment and called a meeting of the executive committee.

JUST starting in the nursery business is Frank J. Auringer, of Auringer Trees, 6929 Arcola street, Garden City, Mich.



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### DEDICATE MOLINE ELM.

At dedication ceremonies held July 26, a plaque was placed beside an elm tree at 1424 Twelfth street, Moline, Ill., by the garden department of the Woman's Club of that city, to mark the original Moline elm. The tree was planted there in 1903 by Henry Kuehl, who had found it growing in a ravine.

About 1915 a nurseryman, Henry Klehm, began trimming the tree in return for the trimmings, which he took to his nursery at Arlington Heights, Ill., and used to produce other elms with a single trunk, smooth bark and large leaves. Moline elms were soon seen all over the country. That they are now planted along the State street side of the Marshall Field Co., Chicago, and comprise seventy per cent of the shade trees at Milwaukee, Wis., is evident of their widespread popularity.

The tree planted by Mr. Kuehl was trimmed for the dedication by R. G. Carmichael, Moline representative of Davey Tree Expert Co., Kent, O. Supervision of the dedication was intrusted to Ralph Birks, park and recreation director for the city.

### LIGHTNING HITS NURSERY.

A fire, which started when a flash of lightning struck the warehouse at Sheridan Road Nursery, Peoria, Ill., July 31, caused an estimated \$2,500 damage, according to C. H. Loew, president of the nursery. Tons of fertilizers, insecticides, seeds and equipment were stored in the building, which was of frame construction, and firemen worked almost two hours before the fire was put out.

A new 40x60-foot building of concrete blocks is being erected to replace the one destroyed, and it should be ready in time for business this autumn.

RECENT applicant for a nursery license is Chuck Stamps, who has a new salesyard and greenhouse at Woodville, Tex.

## HOBBS

Fall, 1951 - Spring, 1952.

Thurlow Weeping Willow,  
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Evergreens, Shrubs,  
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Evergreen Liners  
Specimen Evergreens  
Ornamental Shrubs  
Fruit Trees

Plum Seedlings  
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12 to 18 ins.....	\$20.00	\$175.00
9 to 12 ins.....	15.00	125.00
Straight seedlings:		
6 to 9 ins.....	9.50	85.00

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Sensational Early Hybrids.

(Species crosses, Officially x Albiflora)  
Doubles, Japs, Singles. These give a complete new season of bloom, starting 10 days before the common peonies.

**COLORS:** Reds surpassing all old kinds; crimson, coral, salmon, cherry, orange; many with absolutely no purple cast, and unfading.

There are not now enough plants in existence to supply one large city. They sell on sight. A nation-wide demand is certain to come. An investment in these hybrids should prove profitable far beyond ordinary nursery gains.

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Box 251 PRINCETON, ILL.



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Growers of Quality Evergreens  
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### HENRY NURSERIES

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**HENRY, ILL.**

Growers of General Nursery Stock.

Visitors Welcome.

## Coming Events

### MEETING CALENDAR.

August 16 and 17, Michigan Association of Nurserymen, Harris hotel, Kalamazoo.

August 21 to 23, Ohio Nurserymen's Association, Zaleski state park, Zaleski.

August 27 to 29, Texas Association of Nurserymen, Plaza hotel, San Antonio.

August 27, National Arborist Association, Netherland Plaza hotel, Cincinnati, O.

August 27 to 31, National Shade Tree Conference, Netherland Plaza hotel, Cincinnati, O.

August 28 and 29, Northern Nut Growers' Association, University of Illinois, Urbana.

August 30 and 31, short course for nurserymen, Ontario Agricultural College, Guelph, Ont., Canada.

August 31, Iowa Nurserymen's Association, Shenandoah.

September 6 to 7, Kansas Association of Nurserymen, Ottawa.

September 13, Western New York Nurserymen's Association, Geneva.

September 18 and 19, Oregon Association of Nurserymen, Congress hotel, Portland.

September 19, Nebraska Association of Nurserymen, Plumfield Nurseries, Fremont.

September 24 to 26, California Association of Nurserymen, Ahwanee hotel, Yosemite National Park.

September 28 and 29, Louisiana Nurserymen's Association, Covington.

October 5 to 7, Texas rose festival, Tyler.

October 7 and 8, Florida Association of Nurserymen, trade fair, Haven hotel, Winter Haven.

November 12 to 16, American Institute of Park Executives, Miami, Fla.

### PLAN TEXAS CONVENTION.

The annual convention of the Texas Association of Nurserymen, to be held August 27 to 29 at the Plaza hotel, San Antonio, will begin officially Monday afternoon, August 27, with a welcoming address by the mayor of San Antonio. After reports from the executive secretaries and obituary chairman, sectional reports on the condition of nursery stock and the business outlook will be given. J. A. Richardson, of Richardson's Nursery, Midland, will speak for west Texas; Mancill Allen, of Mancill Allen Nursery, Houston, for south Texas and the coastal region; E. E. Leverett, of E. E. Leverett Nursery, Dallas, for central Texas, and Homer Eikner, of Vermay Nursery Co., Tyler, for east Texas.

A talk on "Nursery Stock Merchandising" will be given by John Hume, manager of the garden and lawn department for Sears Roebuck & Co., Chicago. Ray Wilson, of Dal-

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A general line of  
heavy, sheared, transplanted

### SPECIMEN EVERGREENS

Junipers: Virginiana Canaerti, Burki, Keteleeri, Chinese Column, Chinese Mascula, 3 to 6 ft.; Virginiana Glauca, 3 1/2 to 4 ft.; Stricta, 18 to 24 ins.; Irish, 3 to 4 ft.; Meyer, 2 to 3 ft., and Pfizer, 18 to 30 ins.; Pyramidalis Arborvitae, 3 to 4 ft.

These evergreens are not like the usual grade offered by the wholesale nurseryman. They are a much heavier grade. Thick, compact, strictly specimen plants grown for our retail trade. Why not visit our nurseries and let us show you this stock?

500,000 Rosa Multiflora; Bolleana and Lombardy Poplar, 8 to 12 ft.; Chinese Elm, 6 to 12 ft.; Mountain Ash, 5 to 6 ft.; Weeping Willow, 5 to 8 ft.; Amur River North Privet, 18 to 24 ins., 2 to 3 ft. and 3 to 4 ft.

A general line of Apple, Peach, Pear and Cherry, in leading varieties in 2 and 3-year-old and bearing-age grades, at reasonable prices.

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Flowering Shrubs  
Shade Trees  
Evergreens  
Lining-out stock  
Phlox or Peonies  
Apples or Plums  
Perennials  
Plum Seedlings

If so, please write for copy of our new wholesale price list.

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## NORTHERN-GROWN STOCK

Seedlings—Transplants

Black Hills, Colorado Blue Spruce and American Arborvitae transplants. For Fall.

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BLACKDUCK, MINN.

## AMERICA'S BEST SOURCE FOR

### HARDY PLANTS

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las, will report for the Texas state fair officials, after which there will be a short business session. A Mexican supper has been planned for the evening, with entertainment arranged by local nurserymen.

Sessions Tuesday will begin with a report of the group insurance committee by R. B. Baker, Jr., of Baker Bros. Nursery, Fort Worth, chairman. Speakers scheduled for Tuesday morning are John C. White, Texas commissioner of agriculture, on "Teamwork Between the State Department of Agriculture and the T. A. N.," and J. Frank Sneed, of Sneed Nursery Co., Oklahoma City, Okla., on "A Wholesaler's Suggestions to the Retailer." Other speakers will be secured to discuss "An Architect's View of the Nursery and Landscaping Business" and "How the Landscape Architect Can Help the Nursery Trade."

The ladies will enjoy a luncheon and style show Tuesday noon at the Menger hotel. The afternoon will be free so that nurserymen may make a bus tour of old San Antonio, visiting the Alamo, Governor's Palace and other historic spots. A banquet and dance will be held on the roof garden of the Plaza hotel in the evening, at which the annual membership and the Arp awards will be presented.

A tour of Breckenridge park and the zoological gardens has been arranged for the ladies and the children Wednesday morning. Nurserymen will attend business meetings and hear a talk on "Trade Association Relationships," by Richard P. White, executive secretary of the American Association of Nurserymen. Following luncheon, at which John Ben Shepperd, Texas secretary of state, will be the main speaker, members of chapter 25 of the American Association of Nurserymen will meet.

#### WEST NEW YORK OUTING.

Members of the Western New York Nurserymen's Association will hold their annual summer outing September 13 at Geneva. The day will start at 11 a. m. with an informal get-together at the nurseries of Maxwell, Bowden & Rice, Inc. At noon the group will move on to the Geneva Country Club for luncheon and an afternoon program of sporting events, for which prizes will be awarded. Dinner will also be served at the club.

OPENED recently by Wallace A. LaFleur, a graduate of Ohio State University with a master's degree in floriculture, LaFleur's Flower Shop & Nursery is located at 990 North College avenue, Lafayette, La.

## EVERGREENS

### BROADLEAFS

Abelia  
Ligustrum  
Cherry Laurel  
Ilex Crenata Convexa  
Ilex Crenata Rotundifolia  
Ilex Cornuta Femina  
Ilex Burfordi  
Ilex East Palatka  
Ilex Vomitoria  
Magnolia Grandiflora  
Magnolia Soulangeana  
Magnolia Soulangeana Nigra  
Gardenias  
Camellias

### CONIFERS

Berckmans Arborvitae  
Baker's Arborvitae  
Bonita Arborvitae  
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Established 1887  
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Growers and Wholesale Dealers  
SHRUBS, FOREST and SHADE TREES,  
EVERGREENS, VINES and CREEPERS  
*Trade list mailed on request.*

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**ROSEBUSHES**  
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Licensed Grower,  
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*Our Specials in Lining-out Stock Include:*  
Pink-flowering Dogwood      Evergreens      Hedge Plants  
Flowering Shrubs  
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**PEONIES      IRISES**  
**DAY LILIES      POPPIES**  
ALL YOUNG-GROWN STOCK  
PROMPT SERVICE  
Send for Wholesale Prices.  
**C. F. WASSENBERG**  
4½ Miles East on U.S. 30  
VAN WERT, OHIO  
"The Peony City"

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HEADQUARTERS FOR  
EVERGREEN GRAFTS, TRANSPLANTED  
EVERGREENS, SHRUB LINERS.  
*Write!*  
RAKE ITEMS YOU DO NOT  
FIND IN MOST LISTS!  
**HILLTOP NURSERIES**  
CASS TOWN, OHIO

# For Strawberry Growers

## NEW HARDY STRAWBERRY.

After fifteen years of experimenting and crossbreeding, Marion Hagerstrom, a farmer at Enfield, Minn., aided by various Minnesota state officials and by researchers at the University of Minnesota, has introduced a new strawberry variety, Red-Rich. The berry, the result of crossing Fairfax and Wayzata, combines the outstanding features of the parent plants and is acclaimed to be redder, sweeter and harder than any previous strawberry. It survived temperatures of 30 degrees below zero, without benefit of snow cover, and showed no noticeable winter injury.

Red-Rich is distinguished by the deep red color which runs entirely through it, with only a small white core at the center. The redness indicates unusually great conversion to sugar and is one of the qualities which make the berry adaptable to all freezing purposes. The berries are of permanently firm texture and maintain their actual shape after thawing. In addition, the fruit is easily shipped, for it keeps its outstanding sweetness and flavor for a relatively long period.

The new strawberry produces a large crop, averaging 10,000 quarts per acre in the first field tests. Reproduction is usually extensive, so that between spring and fall from sixteen to twenty new plants were obtained for each original planting, and the variety has high disease resistance.

## TENNESSEE STRAWBERRY.

A new strawberry which ripens as much as two pickings ahead of Blakemore was crossbred by Dr. J. P. Overcash at the West Tennessee agricultural experiment station, Jackson, in 1942, and has now been announced by the Tennessee agricultural experiment station at Knoxville. It was aptly named the Tennesseean, for both parents were Tennessee selections. The female grandparents were Missionary and Howard 17, and the male parent was the result of overbreeding two other Tennessee selections descended from Klondike, Aroma, Missionary and Howard 17.

Tennesseean combines late blossoming with early ripening and is therefore less susceptible to cold injury than Blakemore. Tests made at a

Knoxville nursery in 1950 revealed that it produced more fruit than any other variety grown nearby. The fruit has a slightly hollow core, which may make it unsuitable for certain packs, but it is satisfactory for a sliced pack and for freezing. The berries, somewhat larger than Blakemore, are uniform, conically shaped, of even red color and glossy. The texture is firm and juicy, and the flavor is subacid and aromatic.

Plants of the new variety are of medium height, vigorous and productive. Although they are slightly susceptible to leaf scorch, they are free from yellow foliage disease, which is common in Blakemore.

## RED STELE CONTROL.

Red stele, a strawberry disease which has heretofore been counter-

acted only by using resistant varieties, now can be controlled by a chemical, Dithane D14, according to E. M. Stoddard, plant pathologist at the Connecticut agricultural experiment station, New Haven. Acting both as a therapeutant and a soil-sterilant, Dithane D14 stops the spread of red stele in the field and also prevents strawberry plants from becoming diseased if treated previous to planting in infested soil.

Dithane D14, disodium ethylene bisdithiocarbamate, was used in the station's tests because it is known to control late blight of potatoes, the casual fungus of which is closely related to the one causing red stele. The material was sprayed on a field of strawberries with an active and rapidly spreading area of red stele. The result was an almost immediate stopping of the spread of the infection, and no injury was apparent to the treated healthy plants except where the solution accidentally

## CHINESE CHESTNUTS

Peter Lui strain seed nuts and seedlings, and grafted Nanking, Meiling, Abundance and Kuling varieties. Write for information and prices.

## Leeland Farms

P. O. Box 128 LEESBURG, GA.

## RED PEONIES

Pay most profits. 50 per cent of the demand is for red varieties. They bring the largest retail prices. Here are 3 best reds:

Karl Rosenfield—crimson.  
Mons. Martin Cahuzac—darkest red.  
Longfellow—bright red.  
Divisions, \$5.00 per 10; \$40.00 per 100;  
\$350.00 per 1000.

Terms: Cash with your order, please.

**PAYNE DAHLIA FARMS**  
ROUTE 5 KANSAS CITY 3, KAN.

## LINING-OUT TAXUS

MANY VARIETIES

Write for List.



**EAGLE CREEK  
NURSERY CO.**

NEW AUGUSTA, INDIANA

## 30,000 Potted Taxus Liners

1, 2 and 3-year.

Weigela Eva Rathke, transplants.  
Viburnum Rhytidophyllum.

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our  
specialties.

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## PEONY ROOTS

Liberal 3 to 5-eye divisions  
Queen Victoria, Endulla Superba, Festiva Maxima.

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COLUMBIA, TENN.



## WE OFFER FOR FALL SHIPMENT NURSERY-GROWN STOCK

<b>Tsuga Canadensis.</b>		
<b>Ilex Opaca.</b>		
6 to 9 ins., tr. xx.	Per 100	Per 1000
9 to 12 ins., tr. xx.	\$ 9.00	\$ 80.00
12 to 15 ins., tr. xx.	13.00	120.00
15 to 18 ins., tr. xx.	16.00	150.00

<b>Abelia Grandiflora.</b>		
<b>Hydrangea Paniculata Grandiflora.</b>		
6 to 12 ins., 1-yr., C.	7.00	65.00
12 to 18 ins., 1-yr., C.	11.00	100.00
18 to 24 ins., 2-yr., br.	15.00	....

<b>Cornus Florida.</b>		
2 to 3 feet, well br.	Each	\$0.20
3 to 4 feet, well br.		.30
4 to 5 feet, well br.		.45

### Native Shrubs and Evergreens

<b>Tsuga Canadensis.</b>		
<b>Ilex Opaca.</b>		
6 to 12 ins., s.	Per 100	Per 1000
6 to 9 ins., s.	\$0.75	\$ 6.00
9 to 12 ins., s.	1.50	10.00
12 to 15 ins., s.	2.50	20.00
15 to 18 ins., s.	4.00	35.00
18 to 24 ins., s.	6.00	55.00

<b>Rhododendron Maximum.</b>		
<b>Kalmia Latifolia.</b>		
3 to 6 ins., s.	2.00	15.00
6 to 9 ins., s.	3.00	25.00
9 to 12 ins., s.	4.00	35.00
12 to 15 ins., s.	5.00	45.00
15 to 18 ins., s.	6.50	60.00

**CUMBERLAND PLATEAU NURSERY**  
YORK ROUTE CROSSVILLE, TENN.

## PAUL SHAMBURGER'S ROSE NURSERY TYLER, TEXAS

Introduces a new climbing rose  
**CLIMBING FLORADORA**  
(Patent Applied For)  
**New - Hardy - Popular**  
Growing contracts now available.

**Broad-leaved**  
**Coniferous Evergreens**  
**Deciduous Magnolias**

Write for complete price list.

**T. G. OWEN & SON, INC.**  
Columbus Mississippi

**SEMME'S**  
**NURSERIES**  
AZALEAS - CAMELLIAS  
and other choice evergreens  
Wholesale Catalog SEMME'S, ALA.

reached the foliage and caused burning.

Red stele is caused by a fungus, *Phytophthora fragariae*, which attacks the roots of the strawberry plant and leaves a characteristic symptom, the red or reddish-brown color of the central cylinder, or stele, giving the disease its name. The diseased plant wilts in the spring about blossoming time, and soon the entire plant dies. The fungus spreads rapidly in cool spring weather when there is an abundance of soil moisture. It not only destroys the present crop, but remains in the soil for many years, making it unfit for strawberry plants of nonresistant varieties.

During experiments at the station Dithane D14, at a concentration of six quarts to 100 gallons of water, was injected into the soil with a subirrigation gun, a simple tool made of 1/2-inch pipe with a sharp steel tip. Immediately behind the tip are two small holes and, at the other end of the pipe, are means for attaching it to a high-pressure spray pump and a shutoff. A thorough impregnation of the soil is best accomplished by pushing the subirrigation gun down twelve to eighteen inches under the surface at intervals of four feet and maintaining the flow until the soil is slightly lifted.

The first application was made in early May, just as the plants were coming into bloom, at a rate of approximately 2,000 gallons to the acre. The necessity of a second application was not apparent, but it was made after the fruit had been picked. No further spread of the disease was noted during the rest of the season, and this year no disease has been evident in the treated area nor in new untreated plants set in the area.

Further experiments were made in greenhouses. Healthy strawberry plants were grown in sand in units of ten plants in each unit and watered with a different concentration of Dithane. One concentration consisted of six quarts of Dithane in 100 gallons of water and, the other, three quarts in 100 gallons of water. After the plants were removed from the sand, the roots were washed and the plants reset in infested soil without further treatment. After two months all plants treated with the higher concentration, sixty per cent of those with the lower concentration and only ten per cent of an equal plot of untreated plants were healthy. Two lots of plants set directly in infested soil and treated with the same concentration resulted

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## PECAN TREES

Wight's is your best source for young, vigorous, budded pecan trees—the kind that really makes satisfied customers. Ask for trade prices.

**WIGHT NURSERIES, CAIRO, GA.**

**WISTARIA TREES**  
by  
**VERHALEN NURSERY CO.**  
SCOTTSVILLE, TEXAS

# PEACH TREES

Available for Fall, 1951, and Spring, 1952, in following varieties and sizes:

	Per 10	Per 100	Per 1000
11/16-in., 5 to 7 ft.	\$6.00	\$45.00	\$400.00
9/16-in., 4 to 6 ft.	5.50	40.00	350.00
7/16-in., 3 to 4 ft.	4.50	30.00	250.00
5/16-in.	3.00	22.00	180.00
2 to 3 ft.	2.50	17.00	120.00

Belle of Georgia  
Brackett  
Dixigem  
Elberta  
Gage Elberta  
Golden Jubilee

Halehaven  
J. H. Hale  
Redhaven  
Shipper's Red  
Sullivan's Early Elberta

... Will Grow on Contract for Fall, 1952, and Spring, 1953, delivery 50,000 Peach to be budded at once. As we are now budding, contact us immediately.

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WAYNESBORO, VIRGINIA



OUR 67th YEAR

### ONE OF NEW YORK STATE'S LARGEST FRUIT TREE GROWERS

All upland-grown and inspected for trueness to name.

Std. and Dwarf Apple,  
1 and 2-yr.

Std. and Dwarf Pear,  
1 and 2-yr.

Plum, 1 and 2-yr.

Sweet and Sour Cherry-Quince,  
1 and 2-yr.

Peach, 1-yr.

Also a good assortment of  
Shrubs, Shade Trees, Evergreens.

Write for our  
Wholesale Price List.

We are also buyers  
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Ornamentals, Roses, etc. We  
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**MALONEY BROS. NURSERY CO., Inc.**  
DANVILLE, NEW YORK

## FRUIT TREES

Apple, 1 and 2-yr., Dwarf and  
Standard.

Pear, 1 and 2-yr., Dwarf and  
Standard.

Plum, 1 and 2-yr.

Sweet and Sour Cherry,  
1 and 2-yr.

Quince, 2-yr.

Apricot, 2-yr.

Peach, 1-yr.

Write for our wholesale list.

**KELLY BROS. NURSERIES, Inc.**  
DANVILLE, N. Y.

## Headquarters for East Malling IX Dwarf Rootstock

### VAN HOF NURSERIES

Bristol Ferry Rd.  
Portsmouth, R. I.

## AMERICAN NURSERYMAN

in seventy per cent healthy plants for the higher concentration and 100 per cent healthy for the lower concentration. The higher concentration caused some root injury which may have resulted in less uptake of the material and thus less resistance to infection.

The same results as those produced with Dithane D14 should be produced with Parzate, for the two are supposedly identical, but experiments have yet to be made with Parzate.

### 2,4-D SPRAYS FOR WEEDS IN STRAWBERRIES

Sprays containing 2,4-D will give good results against broad-leaved weeds in strawberry beds, providing spraying is done before the first strawberry blossoms open, states Dr. Otis F. Curtis, of the New York agricultural experiment station, at Geneva, where tests have been made with 2,4-D as a chemical weed control on a number of varieties and unnamed seedlings. To date no satisfactory spray for controlling grass in strawberry beds has been found. In all cases weed sprays reduced yields slightly as compared with hand weeding, but if weeds are serious in the strawberry bed, a possible slight reduction in yield would be negligible when compared with a possible complete loss of crop without weeding. There is also the added benefit of ease of picking to be gained from weed control.

For growers who wish to try 2,4-D on a tentative basis, it is suggested that sprays supplying the equivalent of one pound of 2,4-D acid to the acre be used at any time except between flower opening and fruit picking. Application of one-half pound of 2,4-D acid to the acre will probably be sufficient when weeds first appear after setting out a new bed, to be followed by a second treatment.

Home gardeners may follow the directions for use of 2,4-D on lawns since the rate of treatment for lawns is equivalent to about one and a half pounds of 2,4-D acid to the acre. This higher rate of application would also serve for spot spraying of scattered weedy patches.

### GEESE FOR WEED CONTROL IN STRAWBERRY FIELDS

Five to seven geese per acre in first-year strawberry fields will help keep down weeds, especially crab grass, according to W. W. Magill, of the department of horticulture at the University of Kentucky, Lexington.

ton. The geese should be fenced in the berry field soon after planting time by means of a 3 to 4-foot portable fence of poultry wire or used woven wire fencing. The fence need not be stretched, but simply held in place by plaster laths or other posts. Cropping one wing, if necessary, will keep the geese from flying out.

Geese seem to feed naturally on almost all weeds except dock and sorrell, according to Professor Magill, and they have been used in the south in cotton fields for weeding purposes since Civil War days. They prefer weeds in tender spike stages, but they will gradually feed on older weeds until they disappear. They will not eat strawberry foliage and need not be removed from the berry field until blossom and berry season. Some Kentucky growers claim a goose is worth \$30 each year in saving labor for hoeing.

Extension experts at the University of Maryland report that Rayner Bros., Salisbury, Md., suggest goslings for trial in strawberry fields, for they will eat almost any weed in the tender stage except smartweed and chickweed. They estimate a saving of \$50 per acre on hand hoeing. The geese require some attention, including shade, water and grain feed, although they will forage better when somewhat hungry.

By placing a shade of boards, tin or brush on one side of the field, drinking water on another side and feed on a third side and moving them from time to time, the geese will be encouraged to move about the field and do a more thorough job of grazing.

#### OUTDOOR PROPAGATION.

Economy, the possibility of larger stock and complete adaptability of such stock to planting at all seasons are among the advantages of the outdoor method of propagation, says Steve Verhalen. Outdoor propagation as practiced at the Verhalen Nursery Co., Scottsville, Tex., means almost a complete absence of greenhouse culture. All cuttings, seeds and other means of producing new stock are planted in open ground beds protected only by lath or shade houses. A few kinds of plants require extra shading, and some have to be protected with sash covers.

Methods of making the cuttings and the chemicals used to induce early rooting are similar to those used in indoor propagation. Some plants will root more quickly indoors, especially during the winter, but it would be hard to beat the speed in which

## STRAWBERRY PLANTS

### FOR AUGUST PLANTING

Plants unconditionally guaranteed for planting during August. Guarantee is based on actual experience in commercial and garden plantings over a number of years. Fill your Strawberry orders received during this period. Our plants are in cold storage in excellent dormant condition.

Grown in chemically treated soil, free from disease and insects. Prompt shipments guaranteed.

	25	100	250	1000
Ambrosia Late	\$.40	\$1.25	\$2.25	\$ 8.00
Aroma	.40	1.25	2.25	8.00
Big Joe	.40	1.25	2.25	8.00
Blakemore	.40	1.25	2.25	7.50
Catskill	.45	1.35	2.50	8.50
Dunlap	.40	1.00	2.00	7.00
Fairfax	.40	1.25	2.25	8.00
Fairland	.40	1.25	2.25	8.00
Gem (Everbearing)	.70	2.25	4.50	16.00
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Midland	.40	1.25	2.25	8.00
Missionary	.40	1.00	2.00	7.00
Premier	.40	1.25	2.25	8.00
Red Crop	.55	1.75	3.50	12.50
Red Star	.45	1.35	2.50	9.00
Robinson	.40	1.25	2.25	8.00
Southland	.40	1.25	2.25	8.00
Streamliner (Everbearing)	.70	2.25	4.50	16.00
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**BOOKS REVIEWED IN THIS ISSUE**

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Burford holly rooted this summer at Scottsville, which was less than thirty days. Honeysuckle started in mid-June was well enough rooted to be potted out three weeks later. It is not unusual to have eighty to ninety per cent of all cuttings root successfully, says Mr. Verhalen, and this does not necessarily have reference to gardenia, adina or Yunnan honeysuckle and others of the usual easy-to-root plants. The take on the 1950 winter crop of Pfizer junipers was over ninety per cent. Juniper grafts did better than ninety-five per cent, and this was on the first attempt at outdoor propagation, which bettered any take in the greenhouse at Scottsville.

Soil for outdoor propagation is just good field soil selected from locations where there is enough sand. Peat moss is added to improve moisture retention. Watering is a chore during the summer, requiring two and sometimes four men during a large part of each day. Water is obtained from two deep wells, and one hand-dug well, ten feet wide and twenty-five feet deep, is kept as a stand-by in event of emergency. Little trouble is encountered with pests, and the only generally bothersome creature, the grubworm, is easy to control. Of course, weeding is more of a problem than with indoor propagation.

The shading is all of the wire-type camouflage netting. Pipe is used for upright supports with either steel cables or welded pipe crosspieces set eight feet aboveground. While the wire shading is not so economical to erect, the Verhalens have found it more economical in the long run than an untreated wood structure. Allowance should be made in the structure to care for any added weight in regions where there are snow and ice in winter.

As a rule space is not at such a premium in outdoor beds as it is in the greenhouse; so a larger cutting may be made and more space given it. The result is a much larger finished liner to plant in the field, to put in the can and to offer for sale. Another consideration is that plants being grown outdoors, exposed to weather, become dormant and remain dormant during the customary planting period, while stock propagated indoors, protected from the weather, often must be held back for more favorable planting conditions or a risk taken in planting it before weather is favorable. In late spring and summer conditions of temperature do not make a vast difference between indoor and out-

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door-grown cuttings; the main difference would be the change in humidity.

### COVER ILLUSTRATION.

#### **Viburnum Rufidulum.**

One of the viburnums which have been too seldom used as an ornamental plant is *Viburnum rufidulum*, the rusty blackhaw viburnum. It is a large shrub or small tree, said to attain a height of thirty feet or more at maturity, but usually little more than half this height.

The generic name, *viburnum*, is derived from an ancient Latin name, and the specific name, *rufidulum*, from the word *rufous*, meaning reddish-brown, which denotes the pubescent characteristic of the twigs, buds, petioles and underside of the leaves. The plant is native of the territory from Virginia to Florida, west to Illinois and Texas. It was introduced to cultivation in 1883 and appears to be hardy throughout Ohio and other states in Rehder's zone 5.

One of the interesting characteristics of *Viburnum rufidulum* is the short, stiff branches, inclined to be horizontal-spreading, especially in older plants. The branching habit is pleasing. The winter buds are scaly and rusty tomentose.

The leaves are two to four inches long, stiff and leathery, slightly toothed, dark, shiny green above and lighter green and rusty hairy beneath. These stem, bud and leaf characteristics are used in identification of the plant.

The pure white flowers are borne in cymes three to four inches across and are quite showy. The flowering period is late May and early June. The attractive fruits are dark blue or blue-black.

The rusty blackhaw viburnum does well in the average garden soil and will tolerate nearly full shade. Little pruning is required to keep this plant in good condition, and it is not troubled by any serious pests. Propagation is usually by seeds, which should be stratified before planting.

*Viburnum rufidulum* may be used as a large border shrub or as a specimen shrub or small tree, and it also makes a good hedge plant. The branching habit and foliage are outstanding, and the flower and fruits are good.

L. C. C.

FORMERLY at Roscoe, Calif., La Tuna Nursery is now at 10459 Tuxford street, Sun Valley, Calif.

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<b>Chamaelaucium ciliatum</b> .....		<b>17 1/2c</b>
<b>Cotoneaster microphylla</b> .....		<b>15c</b>
<b>Guava Yellow Strawberry (Impr.)</b> .....		<b>12c</b>
<b>Hydrangea White</b> .....		<b>15c</b>
<b>Pinus pinea</b> .....		<b>12c</b>
<b>Pyracantha Rosedale (Trade Mark Reg.)</b> .....		<b>17 1/2c</b>
<b>Pyracantha Lalandi Monrovia</b> .....		<b>12c</b>
<b>Serissa foetida</b> .....		<b>15c</b>
<b>Thuja orientalis aurea nana</b> .....		<b>20c</b>
<b>Ulmus parvifolia sempervirens</b> .....		<b>17 1/2c</b>

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P. O. BOX 196

MONROVIA, CALIF.

## Pacific Coast News

### BEDDING PLANT ORDER.

The California department of agriculture announced that the marketing order for California bedding plants was made effective July 18. Notice of issuance and effective date was mailed to bedding plant producers affected by the order. More than the required number of written assents by producers were filed with the department.

The order applies to all bedding plants grown and marketed in the state for resale in bedding plant containers. The order includes provisions for the establishment of unfair trade practices, the correlation of supply with market requirements for bedding plants and for the development of programs for advertising, sales promotion and research.

In accordance with the provisions of the order, bedding plant producers are eligible to serve as members on the bedding plant advisory board to administer the bill's provisions. From nominations received at the public hearing at Los Angeles, March 6, the state director of agriculture has appointed the following fifteen members and fifteen alternate members to serve on the board for a term which began July 18 and lasts through July 31 of next year:

William Takeoa, San Jose, member, and Edward Gillies, Monterey, alternate; Robert Maruo, member, and Roy Maruo, alternate, both of San Leandro; George Furuchi, Los Altos, member, and Isami Kawahara, San Leandro, alternate; Clifford Nelson, San Leandro, member, and James Gaddis, Santa Rosa, alternate; Hideso Neishi, Oakland, member, and Pat Neishi, Oakland, alternate; John J. DuBois, Turlock, member, and J. R. Edwards, Visalia, alternate; Walter J. Tecklenburg, Lodi, member, and John B. Lagomarsino, Sacramento, alternate; Carl Yesche, Lomita, member, and A. B. Bjurman, San Gabriel, alternate.

Kenneth Bishop, Los Angeles, member, and Teichi Kamei, Torrance, alternate; Robert Mathers, Redondo Beach, member, and Fred Moriguchi, Venice, alternate; J. C. Perry, Montebello, member, and Karl Bauer, Hawthorne, alternate; Henry Ishida, Gardena, member, and Lloyd Hakayama, Gardena, alternate; John Yamane, Gardena, member, and John Fujita, Gardena, alternate; Ray Fajimoto, Hawthorne, member, and Roy Hayashi,

Gardena, alternate, and Owen R. Bristow, San Bernardino, member, and Charles H. Shaw, Westminster, alternate.

In 1952 the board appointments will be made from nominations received at meetings of bedding plant producers held for that purpose.

The initial meeting of the advisory board will be called by the bureau of markets early in August. At that time a chairman, vice-chairman and secretary will be selected and steps will be taken to begin the active operations of the marketing order.

### REDWOOD EMPIRE CHAPTER.

Nineteen persons attended the July meeting of the Redwood Empire chapter of the California Association of Nurserymen held at Hamilton

House, Fairfax. It was voted to accept Kenwood Nursery, Kenwood, and Kentfield Nursery, Kentfield, as new members.

The secretary was instructed to write to the California Spray-Chemical Corp. concerning the sale of Ortho products at wholesale prices to grocery stores. He was also asked to write to N. J. Morrissey, registrar of contractors at Sacramento, to protest the proposed change in the scope of the licenses for landscape contractors.

President Henry Prickett, of Prickett's Nursery, Santa Rosa, appointed Henry Martin, of Martin's Nursery, Sebastopol, chairman of the picnic committee, and assigned Don Perry, of Sunnyside Nursery, Anselmo, and Glenn Conn to the committee. He also appointed Leo Ihle, of Birchlane Farm, San Rafael, chairman of a nominating committee, with Patrick Flynn, of San Rafael Nursery, San Rafael, and Henry Martin as his assistants. After the

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business session, Patrick Flynn led a discussion on the pricing of nursery stock.

Hugh Wallace, Sec'y.

#### WESTERN SHADE TREE MEET.

Despite record warm weather for Portland, Ore., about 100 persons attended the western chapter meeting of the National Shade Tree Conference held at Portland June 27 to 30. Officers elected for the coming year were Walter J. Barrows, Whittier, Calif., president; Allan H. Reid, Palo Alto, Calif., vice-president of the northern section; Ross McIntire, Los Angeles, Calif., vice-president of the southern section, and C. E. Lee, Los Angeles, secretary-treasurer.

On the program were tours of Hoyt Arboretum and the city of Portland rose garden. On the final day of the conference chartered busses took the group to Mount Hood, where dinner was served at Timberline lodge.

At the conference a certification board was set up for the certification of tree workers. The men who actually do the work are to be certified, not the owners of tree service companies. After the men have passed an examination by a regional board, they will be certified as tree trimmers, tree men or tree surgeons.

#### MARIN GARDEN SHOW.

The setting for the Marin county art and garden fair, which was held July 4 to 8 at Ross, Calif., was a plot of ground donated to the Marin Art and Garden Center. It provided an excellent background for the landscape exhibits and other displays, which were designed around the theme "The Spirit of 1776."

An interesting group of dwarf trees was displayed by Samuel Newsum, who studied landscaping in Japan and has adapted Oriental methods to the growing of shrubs and trees. Employing maples and evergreens in the background and tuberous begonias and yellow French marigolds in the foreground, E. L. Egger & Son Nurseries produced a rustic landscape effect. Robert W. Shinn designed a sculptors' garden, with sculptures in a naturalistic setting of green plants around a pool.

Allotted a space with an old oak tree in its center, San Rafael Nursery planted hydrangeas under the tree. Chrysanthemums and a pool surrounded by iris were in the foreground, with rubrum and auratum lilies for added color. One of the exhibits by Birchlane Farm was built

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around a large pool under the trees, with plantings of tuberous begonias, smaller begonias and white geraniums.

### WEDGEWOOD REMODELS

Continuing with the improvements begun three years ago when they took over the old Foster Gardens, the proprietors of Wedgewood Gardens, Seattle, Wash., have painted completely the office, receiving room, warehouse and general utility room. The arterial which the nursery faces, Thirty-fifth avenue, northeast, has been widened and paved, and new concrete sidewalks have been installed, and Wedgewood Gardens have the preparatory layer of cut rock for a new roadway of blacktop, which is now being laid. The glasshouse was remodeled this spring, and now some of the staff is busy pricking perennials there. About 140 varieties of roses are grown, and All-America flower selections are well represented in border plantings.

Wedgewood Gardens are a family affair, managed by Mr. and Mrs. Paul Mayer. Mrs. Mayer's mother, Mrs. A. R. Vultee, is their propagator, and Mrs. Mayer's father, salesman. Paul Mayer's activities as a landscape architect also keep him occupied away from the salesyard. At the moment he is finishing a 6-week job of landscaping a large private estate east of Lake Washington. Mr. Mayer served on the planning committee for the Washington State Nurserymen's Association meeting at Victoria, B. C., August 5 and 6, and was especially busy with last-minute details involving the presentation of a plaque to 88-year-old C. B. Layritz, Layritz Nurseries, Victoria, B. C., who still does much of his own propagating.

M. B. S.

### FERRY-MORSE MOVES

The Ferry-Morse Seed Co. has moved from San Francisco to Mountain View, Calif., about twenty-five miles south of San Francisco, to escape traffic and other problems encountered in a large city. New buildings have been erected, and a private spur from the main line of the Southern Pacific railroad has been built, provided with facilities for loading ten cars or more.

The new, modern mill will operate on a single floor and the basement and is expected to prove more efficient than the usual tower type of construction. It is housed in a concrete and glass structure, which is

air-conditioned and equipped throughout with automatic sprinklers. Four complete lines of seed-cleaning machinery are controlled by a system of blowers, conveyer belts and bucket elevators. The building covers 160,000 square feet and will have research and testing laboratories and warehouse space to accommodate the company's west coast business. Offices are in a separate building, which also houses dressing rooms, rest rooms and a cafeteria for employees.

W. B. B.

### CALIFORNIA NOTES.

Donald Perry, of Sunnyside Nursery, San Anselmo, is expanding the retail sales area at the nursery by reclaiming formerly idle land at the rear of the present grounds. The new area will be devoted to the display of ornamentals.

Juel Christensen, of Christensen Nursery Co., Belmont, has moved to his new home at Los Altos, located on a 20-acre site, which will be devoted to the growing of conifers, magnolias, elms and other specimen trees. Mr. Christensen recently was elected first vice-president of the Belmont chamber of commerce.

Licensed landscape contractors from all parts of the state met recently at Sacramento to consider a proposed amendment to the administrative code which outlines the work they are permitted to do. If adopted at the next legislative session, the amendment would prohibit landscape contractors from: building pools, tanks, fountains, pavilions, conservatories, greenhouses, retaining walls, fences, walks, drainage and sprinkler systems and other garden structures.

A special meeting of the California Seed Association was held at San Francisco to consider the proposed changes in fees charged at the state seed laboratory. It was found that, since the laboratory was made self-supporting, fees charged for seed testing must be adjusted. Walter Schoenfeld, of Germain Seed & Plant Co., Los Angeles, proposed that the seed code be amended so that agricultural seeds sold at retail be retested once each fifteen months instead of every nine months.

William Schmidt, of Schmidt Nursery, Palo Alto, was guest speaker at a recent meeting of the San Bruno Garden Club. He spoke on the care of fuchsia plants and displayed a group of fuchsia blooms.

Mr. and Mrs. Ernest Birk, owners of Espalier Nursery, Belmont, have reported the theft of a cash register



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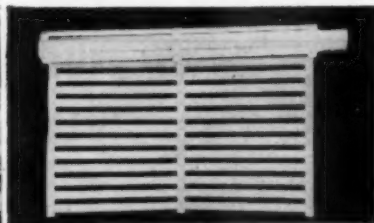
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and the money it contained, totaling a value of about \$500. The salesroom of the nursery is attached to the Kirk residence, and the cash register was removed from it while the family was at dinner. Apparently there was no insurance to cover the loss. Mr. Birk reported that pilfering at the store and nursery has increased both in amount and in the value of the goods taken. W. B. B.

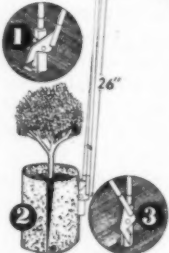
### METHODS FOR THE SMALL GROWER.

(Continued from page 13.)

but with these plants it is permissible to use understocks which have not been established in pots if they are lifted carefully with a good ball. Soak the beds in which the understocks are growing, lift them carefully with a good solid ball, graft at once and immediately plant the grafts in a well prepared frame in peaty soil, planting deep enough to cover the point of union. For this type of grafting it will be necessary to use twine which has been treated with some preservative, such as clear Cuprinol, because if this is not done, the twine will rapidly rot and this will allow stock and scion to come apart as the callus forms, instead of joining firmly together. These grafts must receive the daily attention of frequent syringing, etc., required for all plants of this kind, but beyond this, after being hardened off, the grafts can remain undisturbed in the frame right through the winter. Early in the spring the plants should be lifted out carefully, the understock removed, the string, which will not not have rotted at all, carefully cut and unwound, and the plant firmly lined out in prepared beds in the normal way. While not giving such a high percentage as the more orthodox methods, production of rhododendrons in this manner is quite satisfactory and is an excellent way for the small grower to reproduce a few of the more difficult red varieties, which, up to the present time, cannot be rooted from cuttings.

July and August are the months to take softwood cuttings of all the more easily propagated deciduous flowering shrubs, such as the forsythias, weigelas, buddleias and hydrangeas, to mention but a few. These softwood cuttings, which should be taken from vigorous young growths produced this year by the shrubs after flowering, can be rooted quite easily in a well constructed coldframe. It is essential, however, that the frame be airtight, so that

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a high degree of humidity can be maintained by frequent syringing. This, coupled with high temperatures from trapped sun heat, can force this soft material to root in a remarkably short time. It is often said that hormones are of no use in any type of propagation in cold-frames, but I have found them beneficial for this type of work. If properly controlled, the sun heat can be just as valuable as a heated greenhouse. Results obtained will depend entirely upon the skill of the propagator in manipulating this sun heat to maintain optimum maximum temperatures and high humidity.

Once rooted, cuttings of this type should at once be given air to help them commence to harden off in readiness for the winter. This will induce secondary roots below ground and will check the cuttings from making premature and soft top growth. The cuttings can soon stand full air, and this treatment, coupled with light shade, will allow them to come slowly and normally into winter dormancy as the days shorten. The cuttings may remain in the frames undisturbed over winter and may then be lined out early in the spring by machine. Early planting is necessary for a good stand, but this presents no problem with well rooted cuttings of this type.

#### PLANT NOTES.

[Continued from page 18.]

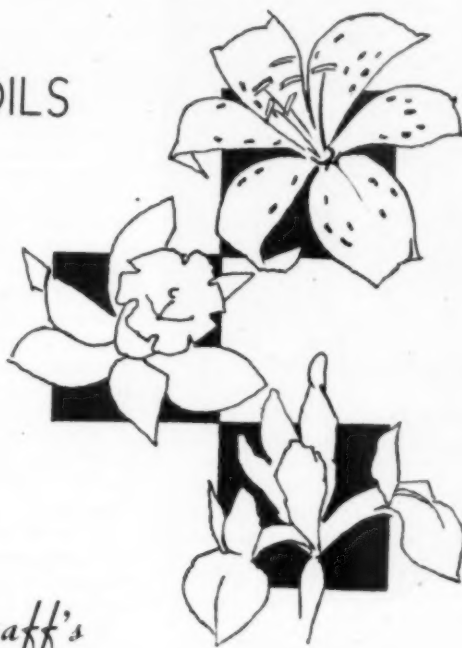
On the other hand, *T. coccineus* has shown that it can survive with little moisture. It is, in addition, one of the most delightful of the tiny thymes, as well as one of the showiest. Its foliage carpet is of about the same density as *T. albus*, but the color is a dark, shining green, over which a layer of bright crimson flowers is spread in June and July.

Take the loveliest thyme that you can imagine, cover its foliage with a coating of gray wool, and you have variety lanuginosus, one of the best of all carpeting plants. In it one finds almost everything that the perfect ground cover in a sunny location is expected to possess, including beauty of foliage and an ease of culture under the most trying conditions. But, like everything of an earthly nature, it falls short of absolute perfection, failing lamentably in the number of flowers produced. In truth, unless one is luckier than I have been, he may not see a lanuginosus flower in a lifetime, except on Hall's variety, which is a generous producer of rich red blooms. The

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ability to produce flowers seems, however, to have taken away some of the woolliness of the type; so one loses beauty of foliage while gaining a few flowers.

I am not sure that I have ever seen variety minus and am not even sure there is such a thing, despite frequent mention of it in the literature. "The Cyclopedia of Horticulture" and "Hortus" do not mention it at all, and the other available books are rather vague when they speak of it, though all seem to agree that it is something of a miff. It demands the most perfect drainage in lean soil, but not without moisture at the roots. That sounds like no thyme that I know, and so I am not sure at all that the tiny-leaved, pink-flowered creeper which I grew several years ago from a packet of seeds marked *T. serpyllum* minus was what minus is supposed to be. If it is, neither moisture nor the absence or presence of fertility seemed of great importance to its growth.

The form of *T. serpyllum* known in gardens as variety splendens is rampant and beautiful in its thick fluffy carpet of green and tall spikes of brilliant rosy-red flowers, but it is not to be trusted in the neighborhood of delicate plants. Its ample mounds may eventually be as much as a foot thick and a yard or more across. Its ability to stand up under drought and exposure, coupled with vigorous growth, makes it one of the best thymes for planting in unconsidered places, where it can spread as it likes, with the assurance that it will always be a pleasing ornament. I have no idea how many other forms of *T. serpyllum* are in gardens, but the number is immense. The plant has varied in nature, and its long association with gardeners has produced many other forms. All are easily propagated from cuttings at almost any time of year.

**Aster Tataricus.**

While I made up a list of tall plants for fall blooming the other day, it occurred to me that I had not seen *Aster tataricus* lately. It set me wondering if that fine plant is no longer noticed by gardeners. Although I have not seen it for ten years or more, it could, no doubt, be found in some eastern nurseries, where it was plentiful a score or less years ago. It is to be hoped that it has not been lost to American cultivation, because it had much to recommend it as a garden plant, especially as a late producer of color on a plant of towering stature. A well grown plant will reach seven feet in

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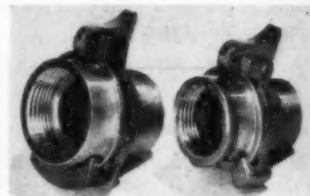
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height, making it a spectacular sight when it is displaying, in October and November, a bountiful crop of violet-blue flowers an inch or more across. That makes it among the latest of the asters to bloom, which is in itself a good recommendation. When not in bloom, it may be told by its entire, lanceolate, hairy leaves, the basal ones eighteen inches or more in length. It needs a fertile soil to reach maximum size, and it is spectacular only when well grown. Seeds come readily from a fall sowing, and the plant may be divided.

While I am on the subject of tall-growing asters, it might be well to mention two or three Michaelmas daisies. One need look no further than the deep violet-blue Mrs. F. W. Fitzpatrick, which reaches a height of six feet; the rosy-red Mrs. Maurice Lawrence, six feet, and the white Mount Everest, five feet.

#### **Bellis Rotundifolia.**

A Nebraska correspondent asks for a note on *Bellis rotundifolia*, especially its blue-flowered variety. I am glad to comply with the request, but I cannot guarantee the plant's hardness in his climate.

The greatest value of this tiny plant is its long-blooming habit, which, in northern Michigan, extends over practically the entire summer and autumn. Owing to its small size, a plant or two make no impression at all, but a well protected, sunny plain of gritty soil covered with a dozen or more plants will make a lovely picture for a long time. Since *B. rotundifolia* comes from the Atlas mountains of northern Africa, one would naturally expect tenderness to cold and, if one is to judge from most reports from the middle west, he would not be far wrong. I am told that it cannot be grown as an outdoor perennial in southern Michigan and northern Illinois. There it is used as an annual, started early indoors. Here, where we can expect snow to come in November and stay until at least mid-March, it usually lives over if we watch over it after the snow leaves. As mentioned before, the plant is not conspicuous unless grown in masses. Then daisies, which are an inch wide or larger, white in the type and pale blue in variety *caerulescens*, produce a pleasing summer and fall effect. The plant is easily grown from seeds and self-sows in congenial surroundings.

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Arborvitae, Pyramid.	.10	.10
Arborvitae, Globe Woodward.	.05	.05
Taxus media No. 8, spreading.	.05	.05
Taxus media hatfieldi.	.05	.05
Taxus media hicksii.	.10	.10

2 per cent discount and free packing for cash with order.

200 plants at 1000 rate.

MIAMI NURSERY CO.

Tipp City, Ohio

Member of American Association of Nurserymen and Ohio Nurserymen's Association.

## 2-YR. EVERGREEN SEEDLINGS.

Per 100 Per 1000

Scotch Pine, 4 to 8 ins.	\$4.00	\$40.00
Douglas Fir, 3 to 6 ins.	4.00	35.00
Balsam Fir, 3 to 6 ins.	5.00	
Colorado Blue Spruce.		
2 to 3 ins.	3.00	20.00
Engelmann Blue Spruce.		
2 to 3 ins.	3.00	20.00
American Arborvitae.		
1 to 3 ins.	2.50	15.00

### TRANSPLANTS.

Per 100

Goldspire Arborvitae.	
4-yr., 10 to 12 ins.	\$15.00
Colorado Blue Spruce.	
4-yr., 5 to 10 ins.	15.00
Austrian Pine, 3-yr., 5 to 8 ins.	15.00
Spreading Yew, heavy, 2-yr.	20.00

Cash with order, please.

ARTHUR CASH NURSERY

Lake Shore Rd. Angola, N.Y.

## THUJA SEEDLINGS.

Per 100 Per 1000

Thuja orientalis tatarica.		
(pyramidal).		
2-yr., 6 to 9 ins.	\$3.00	\$25.00
Thuja orientalis aurea.		
Sdgls., 5 to 8 ins.	3.00	25.00

Shipped mudded and moss packed, these seedlings are giving satisfaction, as the many reorders and compliments attest.

The HARRIS GARDENS

Enterprise, Kan.

## EUONYMUS COLORATUS.

1-yr. rooted cuttings, 3 to 12 ins., \$6.00 per 100; 300 or more, 5c each.

McNINCH GREENHOUSES

St. Joseph, Mo.

Quick — Convenient — Cheap!

Selling through the Classified Ads

of the American Nurseryman.

## FRUIT and NUT TREES

### PECANS.

Stuart, Mahan, Success, Money-maker, Moore, Burkett, Schley, Western Schley and other popular and profitable catalog items. Thomas Black and Willson Wonder English Walnuts, Eureka and Tanenashi Persimmons. Write for advance trade list.

Box 867-C ARP NURSERY CO. Tyler, Tex.

Early and heavy-bearing Papershell Pecan trees; blightproof Pineapple Pears and the new Orient Pear; Apple, Peach and Plum trees; Grapevines. New catalog free.

BASS PECAN CO.

Lumberton, Miss.

Largest Growers of Pecan Trees in the World

## GROUND COVERS

PACHYSANDRA TERMINALIS.

Strong, 1-yr., field-grown, \$65.00 per 1000.

HILLCREST GREENHOUSES, Franklin, Pa.

## HARDY PLANTS

## ORIENTAL POPPIES

Heavy field-grown stock.

	Per doz.	Per 100
Australia	\$6.00	\$35.00
Beauty of Livermere	5.50	25.00
Cavalier	5.50	25.00
Cheerio	5.75	30.00
Crimson Pompon (double)	5.50	25.00
Curtis Giant Flame	5.75	30.00
Curtis Giant Flesh-pink	5.75	30.00
Curtis Giant Mulberry	5.75	30.00
Curtis Salmon-pink	5.50	25.00
Eachantress	5.50	25.00
Gold of Ophir	5.50	25.00
Helen Elizabeth	4.75	20.00
Henri Cayeux Improved	5.50	25.00
Indian Chief	6.00	35.00
Jeannie Mawson	4.75	20.00
May Sadler	5.50	25.00
Mrs. Perry	4.75	20.00
Oriental	4.25	18.00
Salmon Glow (double)	4.75	20.00
Splendor	5.75	30.00
Terrorador	5.50	25.00
Wunderkind	6.00	35.00

The WAYSIDE GARDENS CO.

Mentor, Ohio

## ORIENTAL POPPIES.

Strong, field-grown from root cuttings.

	Per 10	Per 100
Betty Ann, soft pink without spots	\$2.30	\$18.00
Curtis Giant Salmon-pink	3.50	30.00
G.J. Joe, clear watermelon-red	4.00	35.00
Glowing Embers, warm, glowing red	2.50	20.00
John III, deep coral-pink no spots	3.00	25.00
Joyce, cherry-red	2.30	18.00
Little Shrimp, dainty shrimp-pink	2.30	18.00
May Queen, semidouble orange-scarlet	2.30	18.00
Mrs. Perry, light geranium-pink	2.30	18.00
Red Flame, fiery scarlet red	3.00	25.00
Rose Beauty, distinct cerise-pink	2.50	20.00
Tangerine, bright orange	2.30	18.00
Unnamed Poppies. Varieties we are long on	2.00	15.00

## FLOR-ACRES

Bridgman, Mich.

## BLEEDING HEARTS.

Dicentra spectabilis, 3 to 5 eyes, whole root, \$25.00 per 100. Peonies: Mona, Jules Elie, Edulis Superba, Felix Crousse. Also Lillies and Iris.

## ROBINSON GARDENS

Scotts, Mich.

## PERENNIALS.

New and Standard Kinds.

A most modern and complete selection.

New Wholesale List now ready.

Send for your Free Copy Now.

## CARROLL GARDENS

Box 15 Westminster, Md.

HARDY FERNS, \$7.00 per 100.

Ostrich, Clayton, Lady and Maidenhair. Peonies, 35c ea.; Iris, 10c ea.; Phlox, 15c ea., any color. Evergreens, etc., priced on request.

## STRAND NURSERY CO.

Taylors Falls, Minn.

## FIELD-STARTED PERENNIALS.

Blackmore & Langdon Delphiniums, \$2.50 per 100. Samples sent.

Price List of other Perennials on request.

## BEACH NURSERY

Plainwell, Mich.

## SEEDS OF HARDY PERENNIALS.

700 varieties and species.

Offered in our special wholesale price list of perennial seeds, plants. Sent on request.

REX D. FEARCE, Dept. N, Moorestown, N. J.

## America's Best Source

for Hardy Plants is

## THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

Started field plants, 400 varieties Hardy Chrysanthemums, \$10.00 per 100. Surplus of 400 varieties Iris, \$5.00 per 100.

## HILLVIEW GARDENS, Fort Madison, Ia.

Pansies, perennials and rock plants in wide variety. Send for catalog.

PITZONKA'S PANSY FARM

Bristol, Pa.

## IVIES

IVY—Hardy English Large-leaved. Strong 2-in., \$3.00 per 100; \$75.00 per 1000.

Delivery, 1952.

## JACOB SCHULZ

531 Cherokee Rd. Louisville 4, Ky.

More customers for you!

Over 7,000 subscribers, all active buyers.

See your ad in the American Nurseryman.

## ROSEBUSHES

## NEW LONDON ROSES.

Price list on request to all licensed nurserymen, florists and dealers.

Both Standard and Patented Roses.

Send for your copy today.

## NEW LONDON ROSES

P. O. Box 876 Overton, Tex.

## FOR BETTER THAN EVER

## ROSEBUSHES.

Get Martin's Deal.

Lists now ready.

## MARTIN'S ROSE NURSERY

P. O. Box 155 Arp, Tex.

## ROSE BUDWOOD.

(Standard varieties.)

No Patents.

2c per eye. For immediate delivery.

PETER J. BOOY ROSE NURSERY

Rt. 1, Box 197 San Jacinto, Calif.

## SEEDS

LOVELL PEACH PITTS—1 to 5 bu., \$3.50 per bu.; 5 to 10 bu., \$3.25 per bu.; 10 to 25 bu., \$3.10 per bu.; 25 to 100 bu., \$3.00 per bu. Write for prices on larger quantities.

## WAYNESBORO NURSERIES

Waynesboro, Va.

PEACH PITTS—Southern-collected. High germination. Small, about 6,000 seeds per bushel, \$3.50; medium, about 4,500 per bu., \$3.00; large, about 3,500 per bu., \$2.60. Sample upon request. RIVERDALE NURSERIES, Riverdale, Ga.

Italy's most reliable source of supply of high-quality TREE and SHRUB SEEDS for Nurserymen and Foresters. A quarter century of experience. List free.

## ARTURO ANSALONI

P. O. Box 210 Bologna, Italy

Red Cedar, Juniperus virginiana, choice Flatte or Kansas seed berries, 75c. Clean seeds, \$4.00 per lb. Place order for fall and early winter delivery.

## HOME NURSERY

Cuba, Kan.

## SHRUBS and TREES

## MAGNOLIA.

Magnolia soulangeana. Per 100

Magnolia rustica rubra.

12 to 18 ins., slightly branched.....\$35.00

18 to 24 ins., slightly branched..... 40.00

Magnolia soulangeana nigra.

Magnolia liliflora.

12 to 18 ins., slightly branched..... 30.00

18 to 24 ins., slightly branched..... 35.00

Magnolia grandiflora (Bull Bay).

8 to 8 ins., transplanted..... 10.00

8 to 12 ins., transplanted..... 12.50

12 to 18 ins., transplanted..... 17.50

Priced for delivery Fall, 1951, and Spring, 1952. All well grown, nice stock.

## BLACKWELL NURSERIES

Semmes, Ala.

## LINING-OUT STOCK.

We offer Chinese Chestnuts; Native Shrubs, Trees and Evergreens; Flowering Peach, Fruit and Shade Trees, top-quality, dependable plants at reasonable prices.

## GLOBE NURSERIES

Box 249 McMinnville, Tenn.

## MISCELLANEOUS

Vinca minor, excellent evergreen ground cover, organically grown plants. As they run, \$28.00 per 1000. Earthworms, best natural soil builders, \$20.00 per 1000. S. Rodkin, VARIETY NURSERY FARMS, R.F.D., Lambertville, N. J.

## SUPPLIES

## DAHLIA OR TREE LABELS.

Prices per 1000 plain painted

3 1/2 x 5 1/2 ins., notched, not wired.....\$2.50

3 1/2 x 5 1/2 ins., wired (copper)..... 3.30

4 x 4 ins. (cartons 1000 each)..... 2.75

5 x 5 ins. (cartons 1000 each)..... 3.00

6 x 6 ins. (cartons 1000 each)..... 3.30

## POT LABELS.

Priced per carton.

8 x 8 ins. (cartons 500 each)..... 2.40

10 x 10 ins. (cartons 500 each)..... 3.00

## GARDEN STAKES.

Priced per carton.

8 x 1/2 ins. (cartons 250 each)..... 2.00

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12 x 1/2 ins. (cartons 100 each)..... 1.40

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

"We ship the same day."

YOH &amp; HOOKER

Youngstown 2, Ohio

Made from a good grade of Southern Yellow Pine, since Cypress is not available. Standard specifications, inside measurements.

16x12x2 1/2.....\$18.82 per 100

16x14x3 1/2..... 24.98 per 100

20x14x2 1/2..... 24.56 per 100

20x14x3 1/2..... 28.68 per 100

22 1/2 x 15x3 1/2..... 28.14 per 100

22 1/2 x 15x3 1/2..... 32.62 per 100

All other sizes quoted on request. Prices F.O.B. Birmingham.

We are manufacturers, not jobbers. Freight to any point is a small item per Flat. Our Plants are the best. Why pay more? Our quality guaranteed. Prompt shipment, any quantity. Attach check to order.

We make mixed shipments of flats, plant boxes and spray boards.

HIGHTOWER BOX &amp; TANK CO.

Birmingham, Ala.

## TRY... genuine "HIGH NITROGEN"

## MICHIGAN PEAT.

Top in quality, packaging, sales. 100% pure processed peat, 98% organic, pH 4.5. Use M. P. in potting, bench soils, mulching. First for Azaleas and Ericas. Triple profits—USE IT—SELL IT. Truckloads, cars, bagged (5 sizes) and bulk. Prices F.O.B. Peat Bogs, Capac, Mich.

Mail check with order—minimum order:

20 2-bu. (50 lb.) bags.....\$1.10 each

10 4-bu. (100 lb.) bags..... 1.95 each

Compare bushel content. Lowest prices—

Best Value, Results. Order today. Call Capac 62.

## MICHIGAN PEAT, Inc., Capac, Mich.

## REDWOOD FLATS, K. D.

Finest stock obtainable. Guaranteed all clear heart. Size 20x16x3 ins. inside measure, \$42.00 per 100.

1x1-in. Cypress stakes, pointed.

50 pcs. to bundle, 4 ft., \$3.50 per bd.

50 pcs. to bundle, 5 ft., \$4.50 per bd.

50 pcs. to bundle, 6 ft., \$5.50 per bd.

Ship same day. Cash with order, please.

YOH &amp; HOOKER, Youngstown 2, Ohio

## MINNESOTA WHITE CEDAR FLATS.

12x16x2 1/2.....\$20.25 per 100

14x20x2 1/2..... 24.00 per 100

14x20x3 1/2..... 27.00 per 100

Other sizes quoted on request. Also crating and other lumber. Aspen and Pine. F.O.B. Cook, Minn. Please attach check.

## H. C. HILL &amp; SONS, Cook, Minn.

## WISCONSIN'S QUALITY SPHAGNUM

## MOSS.

Clean, long-bered, solidly packed in burlapped or wired bales of standard size, direct from drying beds. None better. Trucked when feasible.

WARRENS MOSS CO., Box 7, Warrens, Wis.

## PRINTING—Letterheads, Billheads, State-

ments, Cards, Envelopes, Tags, Blotters,

Folders, Samples sent.

J. GARLAND HILL, Dept. A, Seaford, Del.

## PAY LESS FOR WOOD LABELS. High

quality, fully guaranteed. Write for prices and

samples. ANTHONY &amp; CO., Escanaba, Mich.

## WANTED

## WANTED.

Untrimmed cuttings of:

Ilex cornuta burfordi

Ilex crenata convexa bullata

Ilex crenata nobilis

Ilex crenata rotundifolia

## NEUMEISTER NURSERY

H. R. 1, Box 74 Sharonville, Ohio

## WANTED.

19 Fagus sylvatica riversi. Copper Beech.

8 to 10 ft. or better, B&amp;B.

## TROBAUGH NURSERIES

Morristown, Tenn.

BECAUSE of renumbering by the city, the address of Elmer Roses, at San Gabriel, Calif., has been changed from 1142 to 6708 North San Gabriel boulevard.

ALL of the doors, bathroom fixtures and other removable objects have been stolen from the new home which Mr. and Mrs. Floyd Bass, Jr., are building on the seventeen acres they have purchased across from the Floyd Bass Nursery, New Augusta, Ind.

WHEN Roy S. and Gladys M. Leighton, of Edmonds, Wash., decided to turn professional a few years ago and share, with lilac enthusiasts, shrubs propagated from their fine private collection, the customers flocked to their gardens. It was, therefore, with a sense of almost personal loss that their friends learned this spring that they were going to close out their lilacs. Spiraling costs were the factor in the decision. The entire stock of lilacs was sold two weeks after the initial announcement. The Leightons will continue to grow peonies both for plant sale and to supply florists. M. B. S.



## WANT ADS

Help and Situation Wanted and For Sale advertisements.

**Display: \$3.25** per inch, each insertion.

**Lines: 30c** line; minimum order **\$3.00**.

### SITUATION WANTED

Capable, experienced nurseryman interested in a position of responsibility. South preferred. Prefer position in a supervisory capacity, growing under glass, field experience, office in wholesale, retail and mail order, also selling on the road. Can fit in anywhere in an organization. State what you have to offer, confidential. Address Box 810, care of American Nurseryman.

### HELP WANTED

Experienced perennial grower wanted. Must know propagation and care of a complete line of perennial plants. This is an excellent position for the right man. Please do not answer unless you are qualified; we do not need amateurs. Write us full details, or for an appointment for a personal interview.

**CARROLL GARDENS**  
Westminster, Md.

### SITUATION WANTED

Production, sales or office management with reliable wholesale concern. Settled family man, age 33, lifetime experience in all wholesale phases of nursery business. Veteran of last two wars. Will be available for work October 1. Exempt from all future military service. No traveling considered.  
**CAPT. JAMES PHILIP**  
Ward 16-A, U. S. Army Hospital,  
Camp Aterbury, Ind.

### HELP WANTED

Landscape salesman. Man with knowledge and experience. Philadelphia area. Have top-quality stock to offer. Unlimited possibilities. Commission or salary.

**SOUTHAMPTON NURSERIES**  
Southampton, Bucks County, Pa.

**HELP WANTED**—Man with office experience to manage medium-size wholesale and retail nursery office. Knowledge of roses particularly desirable. Should be able to meet people well. Worth-while position with good future for energetic, capable person. State experience, reference, age, marital status and salary expected. All applications held in strict confidence. Write: G. C. KLYN, P. O. Box 14, Mentor, Ohio.

**HELP WANTED**—On Long Island. Propagator. Man capable of taking charge of 3 greenhouses totaling 9,000 square feet, also seedbeds and frames, instructing and handling men. Must understand grafting of rhododendrons, also other ornamental plants, grafts, seedlings or rooting. Must furnish references. **BAGATELLE NURSERY**, P. O. Huntington Station, L. I., N. Y.

**HELP WANTED**—Man experienced in nursery work to take position in new nursery opening in southeastern Ohio. Write experience, age and any other information concerning background, also salary expected. Address Box 817, care of American Nurseryman.

**FOR SALE**—Over 25,000 plants, general nursery stock. Will sell trucks and equipment. Will also sell land or lease same as owner has other business requiring most of his time and no time to push the landscaping end of the business. Address Box 816, care of American Nurseryman.

### FOR SALE

Nursery with 24-yr. established retail and propagating trade; 17 acres of land; 28 x 120-ft. service and office bldg., 10,000 sq. ft. lath house, 6,000 sq. ft. propagating greenhouses; some stock and equipment; 6-room dwelling. Located 10 miles east of Louisville, Ky., on U. S. 60, a 4-lane highway.

**NICK'S NURSERY**

Nick Verburg, Owner

P. O. Anchorage, Ky.

### FOR SALE

Closing out nursery. 200,000 rosebushes for sale, to be dug this fall. Consists of good selection of standard varieties and about 35,000 to 40,000 patented roses, extra-fine. Also 200,000 good seedlings, part budded; will complete budding if desired.

210 acres and residence with big cold storage, packing sheds, 2 large greenhouses, trucks, tractors, equipment and deep well with unlimited supply of water. Will sell altogether or separate as desired.

Phone 2-1171 for appointment.

Reply to P. O. BOX 86,  
TYLER, TEXAS

### FOR SALE

Profitable, well stocked, well equipped nursery in eastern Tennessee. On double boulevard with main routes to south and southwest. Center of 300,000 population. All-year planting season. Owner retiring. Easy terms. Address Box 406, care of American Nurseryman.

### FOR SALE

Nursery with 4 acres of finest producing land. Greenhouses, 11,000 sq. ft. of glass. Flower shop and living quarters attached. In southern Wisconsin. Address Box 815, care of American Nurseryman.

### WANTED

Want to buy Sickle Bar and Power Take-off for Jeep. Also Locke Power Lawn Mower. Give age, size and price.

**ROARING RIVER FLOWER SALES**  
Rm. 1601, 45 E. 17 St., New York 3, N. Y.

### HELP WANTED

Large midwest nursery has openings in all departments. Field foremen, propagators, cellar foremen and shipping foremen wanted. Address Box 803, care of American Nurseryman.

### FOR SALE

Whole or part interest in outstanding Wisconsin landscape nursery and greenhouse. Recent deaths of stockholders require changes in ownership. 50 years in business. \$120,000.00 sales last year. 70 acres nursery stock, approximately 10,000 sq. ft. greenhouse. Handsome office building with living quarters above, packing shed, machine shed, storage cellar, trucks, tractors, machinery. 25 miles from Milwaukee. Excellent sales and production staff. Will assist financing of this going business.

Inquire: (Att: H.R.)

**WHITE ELM NURSERY CO.**  
Hartland, Wis.

### FOR SALE

Because of ill health am selling well established nursery and greenhouse on paved highway near Quad City. Buildings consist of all-modern, 4-room house, 9x26-ft. glassed-in porch, full basement; concrete block storage shed, 30x70 ft., with double garage on one side; 20x70-ft. greenhouse; 2 concrete block hotbeds; 10x30-ft. prop. house. Hot-water heat and oil burner. 2 1/2 acres of nursery stock.

**BEN STORJOHANN**  
5320 23rd Ave. Moline, Ill.

### FOR SALE

1 1/4-acre retail nursery with 2-bedroom home. Hotbeds, lath house, greenhouses, etc. Large stock. Good location. Warm area. Present owner handicapped by illness. Must sell; priced accordingly.

**FAY C. GREGG**  
815 S. Main St. Corona, Calif.

### FOR SALE

If you are interested in buying a good-going nursery business—one that is making money and will make plenty of money in years to come—this business has already been built for you. For information write us, or better yet, come and see me.

**RIDGE MANOR NURSERIES**  
E. J. Fields, Prop. Geneva, Ohio



**It's profitable to  
treat indoor and outdoor  
seed beds with**

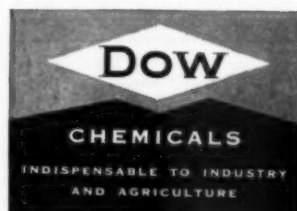
# DOWFUME MC-2

**for control of weed seeds and soil pests**

Hand weeding is hard work, it costs money and is unnecessary when you treat your soil with Dowfume MC-2. This soil fumigant contains Methyl Bromide which kills most of the weed seeds present in the soil. Dowfume MC-2 controls nematodes and other root-attacking pests, gives young plants a running start. At higher dosages, it controls many soil-borne plant diseases.

Ask your Dow dealer or greenhouse supplier about Dowfume MC-2 and the handy trial kit available at very low cost. Or write our Fumigant Division, and we can give you complete information.

**THE DOW CHEMICAL COMPANY • MIDLAND, MICHIGAN**



## MAIL ORDER MEETING.

[Continued from page 7.]

type of stock. Some questions and debate ensued, so that a general picture was presented in a short time.

Reporting on roses, Ralph Perkins, Jackson & Perkins Co., Newark, N. Y., said adverse weather had cut crops in southern California, Oregon and Delaware. While there will be thirty to forty per cent more roses than last year, rose plantings were only sixty per cent of normal. L. A. Dean, Arp Nursery Co., Tyler, Tex., made a more optimistic estimate of seventy per cent, remarking that Texas had only twenty-five per cent of normal. Because of higher labor and other costs, Mr. Perkins said his firm had raised the price of packaged roses, and standard roses in the firm's autumn catalog were set at \$1.35.

In small fruits, Howard N. Scarff reported most items in fair to normal supply. Good growing weather had prevailed, but labor was scarce. He predicted a good demand and expected some shortages. Because of the cost of labor, prices were likely to be twenty per cent higher.

In shrubs, John Fraser III, Huntsville Wholesale Nurseries, Huntsville, Ala., reported a shortage of 1-year stock because of the spring



**SUDBURY SOIL TEST KIT**  
Tests for Nitrogen, Phosphorus, Potash, Acidity (pH)  
No Waiting for Reports  
Save Money on Fertilizer

### Grow Bigger Crops!

Your surest guide to better crops, higher market prices. Sudbury Soil Test Kits show right kinds and amounts of fertilizers, also acidity. You can even test the soil where crops are now growing in benches or fields. Reliable—Easy to use. Same kit furnished government depts., florists, nurseries, etc. Streamline welded steel chest—makes hundreds of tests. Full instructions. New low price, \$24.95 postpaid or C.O.D. plus postage. Money-back guarantee.

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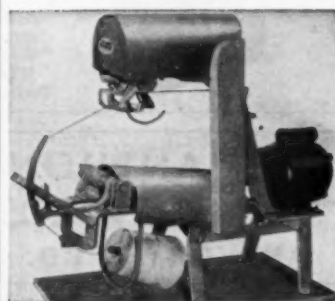
**SUDBURY LABORATORY**  
Box 744, South Sudbury, Mass.  
Dealers Write for Special Offer

## BURLAST

BALL SAVER  
ENDS RE-BURLAPPING

**HILL'S NURSERY**

P. O. Box 43 VICTORIA, TEXAS

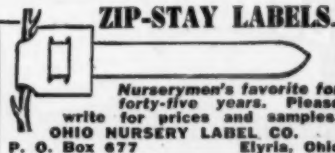


## New Rotary Model FELINS BUNCH TYER

Sturdier construction, smoother action, for tying all varieties of nursery stock, cut flowers and bunch vegetables at a great saving of time, money, twine.

**FELINS TYING MACHINE CO.**

3351 N. 35th St. • Milwaukee, Wis.



## ZIP-STAY LABELS

Nurserymen's favorite for forty-five years. Please write for prices and samples.

**OHIO NURSERY LABEL CO.**

P. O. Box 677 Elyria, Ohio

## "YOU CAN'T BEAT PEAT"

WE OFFER

APPROX. pH

1. **BLACK CULTIVATED PEAT**.....6.5 to 7.0  
A rich velvety peat humus.
2. **HYPNUM PEAT MOSS**.....6.5 to 7.0  
Unexcelled for most horticultural uses.
3. **SPHAGNUM PEAT MOSS**.....4.0  
Best for acid-loving plants.

Available in bulk carlots of 60 to 150 cubic yards per car, milled and ready to use. Loaded in closed boxcars only. Also available in 4 sizes of plastic-lined, machine-compressed bags ranging from 4½ loose bushel size to small, printed, heat-sealed plastic bags.

Write or wire for quotations.

### ELI COLBY CO.

HANLONTOWN, IOWA

"Suppliers to many of America's leading nurseries."



### THE WICHITA COMPOST COMBINATION LOADS, PILES, GRINDS, SCREENS and SEPARATES TRASH

Tough sod, clay, sludge and all organic matter ground through rollers that do not clog on wet materials.

Mellow material screens through perforated screens and trash perfectly separated. Carried over the elevator perfectly mixed and ground without separating light from heavy materials and piled or loaded up to 6 feet.

Patented Screens hold material against grinding cylinder until properly reduced. This is necessary for a perfect product. Two Hoppers: Upper hopper for materials to be ground. Lower hopper for loading only, or for turning the pile without grinding.

Out literature shows various models, all of which are perfect Compost or soil Builders. Ask for it; no obligation.

**The W-W Grinder Corporation**  
Dept. F Wichita, Kansas

### IT'S "ANTHONY" WOOD LABELS for LOW COST — for QUALITY ANTHONY & CO. ESCANABA, MICH.

#### GROWERS

When transplanting or starting  
Nu Way soluble plant food

#### WILL

Lessen root shock  
Hasten growth

#### YOU

Use it once—you will always

#### WRITE

For our "Prove It" offer.

**NU WAY PLANT FOOD CO.**  
STREATOR, ILL.

#### BROKERS or MFGRS.' AGENTS WANTED

Major manufacturer of well known agricultural chemicals, herbicides, hormones, etc., seeks live, reputable representatives, particularly in all eastern territories from Maine to Florida. In first letter include lines now carried, trades covered, territories intensively traveled, other pertinent information. Address:

**HARTOGENSIS ADV. CO.**  
722 Chestnut St. St. Louis 1, Mo.

#### HOW TO INCREASE PLANTS

by Alfred C. Hottes

Discusses method of propagation for seeds, cuttings, bulbs, grafting, fruit stocks, annuals, perennials, conifers, ferns, roses, trees and shrubs. (1949).

Price, \$3.00 postpaid.

**AMERICAN NURSERYMAN**

343 S. Dearborn St. Chicago 4, Ill.

**BURLAP** WRITE FOR OUR  
LOW PRICES  
ON ANY OF YOUR  
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**NEW YORKER BAG & BURLAP CO.**  
1219-D PROSPECT AVENUE • NEW YORK 22, NEW YORK

### AMERICAN NURSERYMAN

drought in the southeast. A fair supply of 2-year stock exists. Hedging is decidedly short. Prices are considerably higher at wholesale than last year. Similar conditions prevailed in their respective areas, reported Clifford Emlong, Emlong's Nurseries, Stevensville, Mich.; George Rose, Henry Field Seed & Nursery Co., Shenandoah, Ia., and Ralph Perkins.

Fruit trees, stated Howard J. Maloney, were fewer than last year, and costs require higher prices. John Kelly said his firm's count was proving less than estimates, and he apprehended a shortage if commercial orchardists should reenter the market. Some contract growers had gone out of business during the decline in fruit tree business since the war. E. M. Quillen, Waynesboro Nursery Co., Waynesboro, Va., asserted that in the east there were definitely fewer fruit trees than last year or for several years.

Evergreens in mail-order sizes are enough to go around, reported Clarence Westdorp, Krider Nurseries, Middlebury, Ind., but larger sizes are scarce. Few large shade trees are to be found, but other sizes are in fair supply.

Harold Goldstein, Kunderd Gladiolus Farms, Goshen, Ind., wondered where the mail-order nurserymen would market the Dutch bulbs they had bought, since the country had been combed by 250 Holland bulb salesmen to stock their wares in all manner of stores. Lily bulbs from the west coast would be in ample supply in spite of the wet weather. The gladiolus bulb situation looked better, he said, since the surplus of No. 1 bulbs from last year had been planted for cut flowers, some bulb growers had gone out of business, radio offers were taking available No. 3 and No. 4 bulbs and rainy weather and disease had taken their toll.

Strawberries, reported Victor Judson, Judson's Wholesale Nurseries, Bristol, Ind., had a good growing season and should be in ample supply. Prices would likely be about the same as last year, except for a probable ten per cent increase on small quantities at retail.

Les Sjulin, Interstate Nurseries, Hamburg, Ia., wound up the discussion with a vigorous assertion that there would be plenty of stock for mail order. "What we need is the orders," he declared. Last spring had been excellent for his firm and, he wagered, for every other firm represented in the room. Next spring he expected to be better. He was openly supported on both points by others.



# ROTO-HOE

## the NEW Laborsaver for NURSERYMEN



- ✓Cultivates BETWEEN Nursery Rows (16 ins., over-all width)
- ✓Prepares Seedbeds
- ✓Pulverizes Compost Heaps
- ✓Mixes Fertilizer with Soil
- ✓Can Be Used on Greenhouse Benches
- ✓Sturdily Built and Precision Manufactured
- ✓Low Price—Retail at \$134.00.

Powered by dependable, powerful 2-H.P. engine. Simple belt and enclosed roller chain transmission. All wearing parts extremely low in cost, if replacements required. Acclaimed everywhere demonstrated as 1951's "BEST BUY" in the tillage field.

The new 12-inch rotary cutter attachment was designed to mulch weeds in nursery rows. This cutter mulches any size weeds and can easily cut cornstalks off close to the ground. This 12-inch mulcher is only \$24.00 extra.

Nationally advertised and distributed—some attractive dealer franchises open.

Write us for complete details.

## ROTO-HOE AND SPRAYER CO.

Dept. 25

NOVELTY, OHIO

### TALKS ON ADVERTISING.

[Continued from page 7.]

plants, but the customers' success with them.

If the dream catalog is attempted, or steps in its direction, the cost of new illustrations or other improvements might be prorated over several years, not considered just one year's expense.

The new catalog will not be more expensive in some respects, for presswork, ink, postage and mailing will probably be the same. To produce a good catalog, quality must be maintained throughout—good photographs, good plates, good printing.

Nowadays the garden public is accustomed to see top-quality pictures in the better magazines. Illustrations should be used for their effectiveness in picturing plants—not for layout tricks or gimmicks. The latter should be avoided.

Headlines can add selling power. Special attention should be given their phrasing for that purpose. A second color, tests have proved, does not make a headline much, if any, more effective than one color.

Mr. Howe thought the use of a second color often less effective than a good black and white picture. If

## ROTOTILLER OWNERS

With the  
AUTOMATIC DRIVES  
Installed

on your Rototiller, the operator is able to make a turn at either end of a row very easily with ONE hand, as one or the other wheel FREES AUTOMATICALLY when turn is started, and when turn is completed that wheel locks into POSITIVE forward driving position and both wheels drive forward until another turn is started. The "Hard-to-Stop" Model B1-6 can be stopped on "The Spot" when equipped with Drives. Rototillers equipped with reverse units will turn under their own power by pulling the reverse lever into reverse position. Transmission oil leaks can be permanently stopped with our special oil seals if installed in connection with Automatic Drives. For descriptive literature see your local Rototiller dealer or write direct to

**AUTOMATIC DRIVE CO.**  
P. O. Box 555 SAGINAW, MICH.

## Big "RAINBOW" Sprinkler



Sprinkles areas of 2500 square feet or more without having to be moved. Has 17 nozzles. Oscillates. Waters evenly. Adjustable for different size areas. Does the work of three or four ordinary sprinklers. Price only \$45. Money-back guarantee. Immediate shipment.

**WHITESHOWERS, INC.**

17514 Woodward Ave. Detroit 2, Mich.

Complete Overhead Irrigation

## METAL LABEL MARKERS

Immediate Delivery

Steel wire stakes with galvanized or green enamel finish—Aluminum and Galvanized Labels.

Also other Ideal Garden Gadgets.

SEND FOR  
DESCRIPTIVE FOLDERS  
TODAY



LANSING SPECIALTIES MFG. CO.  
LANSING 12, MICH.

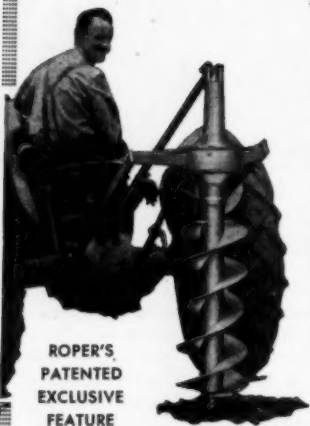
Your best midwest  
source for BURLAP is

**HARROD BAG CO.**  
7250 N. WESTERN AVE.  
CHICAGO 45, ILL.

Samples and prices sent  
on request.

## Saves hours of digging time . . . costly labor **NOW!**

Plant heavier, wider trees and shrubbery with the **EXTRA-WIDE, 18 to 24-in. diameter ROPER Digger**



ROPER'S  
PATENTED  
EXCLUSIVE  
FEATURE

3-inch Roller Bearing at  
Point of Digging

This rugged, durable Roper Digger works perfectly in shale, stony clay, sandstone, any tough soil. Easily installed by one man in 5 minutes; fits any jeep or tractor. Cuts planting and transplanting time way down.

**NO SWING OR SWAY . . .** Stays rigid while digging . . . digs straight or at any angle, adjustable for hillside digging.

**NO WOBBLING or breaking . . .** Safety shear pin is at universal and is easily replaced in field. Three models to choose from that dig up to 42-in. holes; from 8 to 24 ins. in diameter.

Write for free information and name of nearest dealer. **FULL YEAR GUARANTEE** on all parts and workmanship . . .

**DISTRIBUTOR AND DEALER INQUIRIES INVITED.  
WRITE TODAY FOR INFORMATION.**

**ROPER MFG. CO.—DEPT. N**  
ZANESVILLE, OHIO

**WATCH  
FOR ANNOUNCEMENT OF  
BIRD'S REVOLUTIONARY  
NEW GROWING AID IN  
THE SEPTEMBER 15 ISSUE  
OF THIS MAGAZINE  
OR SEE YOUR  
BIRD DISTRIBUTOR  
FOR FULL DETAILS!**



## WOOD LABELS

For Nurserymen

**DAYTON  
FRUIT TREE LABEL  
CO.**

Ray and Kiser Sts. DAYTON, O.

**IT COSTS NO MORE**  
(and in most instances less)  
**FOR OUR PACKING OF  
Nursery Burlap  
Squares and Rolls**

Write for prices and samples.

**L. ATKIN'S SONS**  
P. O. Box 167 Rochester, N. Y.

red is added to a strawberry to give color, the black must be grayed for the leaves—an unreality. And the red for the strawberry is repeated for rhubarb, but the same red ink cannot give a natural picture of both.

Check sales of the items given space in the catalog. Drop those that do not pay for the space. Give good-selling items more space and better pictures. Play up quality—not price—in the catalog copy. The Chevrolet advertisement is devoted to the quality of that car, just as is the advertisement of the Cadillac.

Establish a page format so as to produce an orderly page. Illustrations should not be out of proportion to one another or to the copy they accompany.

Do not deface or mar pictures by running headlines across or into them. Some gimmicks, like ribbons and borders, are not only costly, but more often make cluttered confusion than aid the reader.

In conclusion, recommended Mr. Howe, compare this year's catalog with last year's, to be sure there is improvement. Compare yours with the best of your competitors, as well, to see if you are keeping pace. Consult experts—photographer, designer, copywriter. Get customers' reactions and suggestions. Do not be afraid to make changes.

### Making Advertising Pay.

First speaker of the afternoon was Philip M. White, of the Chicago advertising agency, Calkins & Holden-Carlock, McClinton & Smith, Inc., on "How to Make Advertising Pay." Of long experience in advertising and an ardent amateur gardener, he offered conclusions from his own knowledge and observation.

Citing figures on home construction in the past few years, he said these indicated a greatly increased market for gardening materials.

To reach the gardening public, four media—magazines, newspapers, radio and television—are available. In selecting magazines and newspapers, he advised checking the character of the contents and the type of coverage. Radio offers the best means to reach a mass market; in buying time, one should consider the program immediately preceding, the one following and the opposite programs on other stations. Television is progressing rapidly, as did radio, and will be unsurpassed for advertising flowers and plants when color is available.

He pointed out the steps to be

achieved by advertising, key-lettered by the name AIDA—attention, interest, desire, action. To gain their effect, advertisements must be right as to copy and as to season.

Touching on the comparative value of large and small spaces, color and black and white and other technical methods in increasing returns, he concluded that other factors were of importance in influencing the result.

Build your own catalog, advised Mr. White; make it distinctive. Make it interesting and helpful. Use pictures, and make the text large enough to be easily readable. Inject into the catalog the personality of the nurseryman; how valuable this is can be demonstrated by the short list of those who have accomplished this on a noteworthy scale.

Not only advertising, but one's whole method of doing business makes it pay, Mr. White declared. When acknowledging orders, state on what date or thereafter shipment will be made and by what carrier; then the customer can arrange for prompt receipt and avoid deteriorating delay in the express or post office. Label plants clearly, and pack them well. The satisfied customer is one who succeeds with your plants.

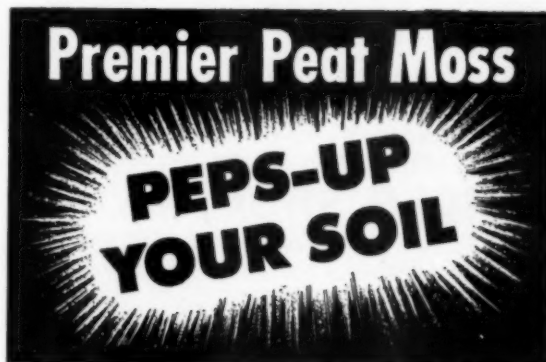
#### Copy That's Read.

Concluding the trio of speakers, Miss Beatrice Fitzgibbons, advertising manager of Gimbel's department store, New York, convulsed her audience repeatedly by her quotation of what she called highbrow and polysyllabic copy, much of which reads like nonsense. Her search, she said, is for persons who can write copy simply so that it will be read. Advertisements of Gimbel's in New York newspapers, one referring to the "handsome horse behind" and another offering manure as a Christmas gift to house gardeners, won an untold amount of attention, though their direct sales result was minor.

Copy aimed at the average man, said Miss Fitzgibbons, influences all classes. The demands of the masses make the choice merchandise of the classes.

The public, she asserted, is in need of information and education on plants, garden operations and all phases of horticulture to develop a larger market for nursery products. She suggested the department store's direct style of merchandise presentation offered an opportunity for nurserymen to move larger quantities of stock more easily and effectively.

**Use Premier!**



**Sell Premier!**

**P**REMIER Peat Moss absorbs and stores the moisture that your soil needs—to pep-up your plants—and pep-up your profits.

Put your soil in Premier condition—for better propagating . . . lining out . . . transplanting. And give your nursery Premier profits by offering customers this outstanding soil conditioner—in outstanding packages for every need.

98% Organic—Weed-free

Ask about our "Pack In the Profits Plan"



**BIG-VALUE BALES  
IN SIZES  
FOR EVERY NEED**



Handy Cartons



Plastic Bags



Kraft Paper Bags

**BAGS AND CARTONS FOR RE-PACKING**

#### Premier Canadian Peat Moss

The best in peat moss packaging, with an assortment of bales, bags and cartons for every customer's needs.

#### Premier European Peat Moss

The pure sphagnum peat moss. The best value and the best packaging from world-wide resources—available at your nearest port.

**PREMIER PEAT MOSS CORP.**

535 Fifth Avenue, New York 17, N. Y.

### THE NEW MODEL B LINDIG SOIL SHREDDER

*The World's Finest*

Improved performance with

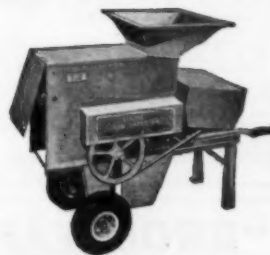
- Actioned Shredding Blades
- Increased Capacity
- More Uniform Shredding

Write for descriptive folder and prices and name of your nearest dealer.

**LINDIG MFG. CO., Inc.**

1875 W. Larpeur Ave.

St. Paul 8, Minn.



#### DEVELOPING NURSERY SALES AND DISPLAY GROUNDS

\$1.00 per copy.

AMERICAN NURSERYMAN,

343 So. Dearborn St.,

Chicago 4, Ill.



## For FAST, EASY WORK

This Garden Shop Hand Truck is so widely used today that few nurseries are without it. Many have several, use one on each delivery truck, others in the nursery.

**SPECIFICATIONS**  
Equipped with Jumbo Balloon Tires and Tubes 12x4 inches.  
Specially Designed Curved Nose.  
All-Steel Construction electrically welded.  
Weight 46 pounds.  
Over-all Length 63 inches.  
Over-all Width 27½ inches.  
Capacity 28-in. Ball weighing 600 pounds.

Write for illustrated folder giving details and prices of the popular Garden Shop Nursery Hand Trucks.



**NOTE** Our NEW ADDRESS—We've moved our nursery and office to larger space and convenient location.

## THE GARDEN SHOP, Inc.

6315 West 75th St.

Overland Park, Kansas

Phone HEdrick 3288 (Kansas City, Mo., exchange)

## PROMPT CARLOAD SHIPMENTS FAFARD SPHAGNUM PEAT MOSS

**FAFARD**

NATURE'S  
SOIL  
CONDITIONER

Makes sandy soil more compact, lightens heavy clay soil—clean and free from weed seeds and disease spores.

HIGHLY ABSORBENT



ORGANIC

Prevents leaching and waste—improves aerating—encourages beneficial bacteria—is long lasting in the soil.

STIMULATES  
GROWTH

**PEAT MOSS**

Direct from our bog to you.

- Bales
- Half Bales
- Bags
- Boxes

Horticultural Peat-Humus

Samples furnished on request

**CONRAD FAFARD, Inc.**

Box 774, Springfield, Mass.

## No Experience Needed To PRINT YOUR OWN POST CARDS

The GEM STENCIL DUPLICATOR saves money... gets results quickly! Hundreds of uses for every type of business and organization. We ship the GEM complete with all supplies, Guide Board for accurate printing and 60-page Book of Ideas at the special low price of only **\$8.50** (a \$15.00 value).

**FREE TRIAL OFFER**

Use the GEM **FREE** at our expense! SEND NO MONEY. Write and complete GEM outfit will be sent you postpaid. After ten days, send us only **\$8.50** or return the GEM. You must be satisfied! **WRITE TODAY.**

**BOND EQUIPMENT CO.** Dept. 22  
6433 Enright • St. Louis 5, Mo.

## "BRODLEAF" Holland Peat Moss

**HALF MOON MFG. & TRADING CO. INC.**  
90 West Street, NEW YORK 6, N. Y.

## GRAFT WAX

FOR GRAFTING AND  
WOUND FILLING

An adhesive, noncracking, nondrying wax with effective anti-mold agent.

Two 1-lb. tubes, **\$1.25** postpaid.

**KALAMAZOO PARAFFINE CO.**  
KALAMAZOO, MICH.

## Since 1840 TWINE and CORDAGE

For all nursery  
requirements.

**GEO. B. CARPENTER & CO.**

430 - 440 N. Wells St.  
Chicago 54, Illinois

## AMERICAN NURSERYMAN

### NEW JERSEY MEETING.

[Continued from page 9.]

proves selling methods. Therefore, instead of a progressive nurseryman's telling the prospective purchaser of a plant that he must wait for fall or spring planting season to buy, he can plant immediately after interest in the plant is aroused. That is what the American public demands, and the homeowner in the near future will see more and more retail nurserymen accepting summer planting jobs. Of course, along with summer planting goes a slightly higher cost due to the added labor involved.

There are no unusual tricks to summer planting by Howe Nurseries' methods, and no chemical sprays are put on the plant. If the ground has been dry due to a prolonged drought, the soil around the plants is saturated days before digging, to permit the plants to take in a maximum amount of moisture. The ball of earth is dug larger than it would be during spring and fall operations and is roped much tighter and with more rope.

In the few instances where there is some wilting of freshly grown shoots, the plant is rushed to a shady area or into a cooling shed, the ball is well watered and within twenty-four to forty-eight hours the plant returns to its normal strength. The entire head of the plant is always wrapped in a burlap cloth that has been sewed to make a big one-piece cover. Grommets are placed along the four edges for easy lacing and a neat-appearing job. The plant is then loaded and taken to its new site, where an extra-large hole is dug and plenty of organic matter, such as Hyper-Humus and peat moss, is added to the fill soil around the ball of earth. The earth is then saturated, and a good mulch must be applied.

On public jobs the maintenance is done by Howe Nurseries. On private locations the homeowner is briefed on the aftercare, and, to make certain that it is followed, a representative of the nursery stops around from time to time. Other than these few helps to nature there is no magic involved in summer planting. To prove his point, Mr. Howe had on display a white oak tree that had been dug in the heat of the summer, and no wilted leaves were on it.

At 1 o'clock, the entire group sat down in the shade of the maple grove for filet mignon, with fresh New Jersey sweet corn dripping in butter serving as an added treat. Ransford Abbott, New Jersey state



## YOU HAVE MORE TO SELL THAN PLANTS ALONE WHEN YOU USE CLOVERSET\* POTS!

Healthy stock growing in Cloverset pots is **EASIER TO SELL**—because plants in Cloverset pots make more attractive displays, are easier for the customer to carry home, can be transplanted any time with the greatest of ease and are **SURE TO**

**GROW.** What's more, Cloverset helps you to advertise and merchandise your stock when you use Cloverset pots. Investigate this modern way of building a better nursery business; fill out and mail the coupon today!

### PRICE LIST AND SPECIFICATIONS

TYPE	Height	Top Diam.	Nearest Clay Pot	Approx. Weight	PRICE		
<b>SPECIAL LIGHT</b> (Packed 200 in carton)					Per 200	Per 200	Per 1000
No. 0	5½ ins.	5 ins.	6 ins.	25 lbs.	\$5.50		\$25.00
No. 1	6½ ins.	6 ins.	7 ins.	37 lbs.	7.50		35.00
No. 2	9½ ins.	7 ins.	8 ins.	50 lbs.	8.50		40.00
<b>STANDARD HEAVY</b> (Packed 100 in carton; 300 or more at 1000 price)					Per 100	Per 100	Per 1000
No. 0	5½ ins.	5 ins.	6 ins.	35 lbs.	\$3.25		\$30.00
No. 1	6½ ins.	6 ins.	7 ins.	52 lbs.	4.50		42.50
No. 2	9½ ins.	7 ins.	8 ins.	78 lbs.	5.00		47.50
No. 3	9 ins.	8 ins.	9 ins.	88 lbs.	5.50		52.50
<b>EXTRA HEAVY</b> (Packed 25 in carton)					Per 100	Per 25	Per 50
No. 4	13 ins.	12 ins.		200 lbs.	\$7.00	\$13.25	Per 75
					Per 100		\$19.75
					\$23.75		\$210.00



\*Patent Number 2073695

**THIS EXCLUSIVE FEATURE** insures healthy, growing plants. The bottom tube on all Cloverset Pots seal in place after first watering, leaving correct opening for proper drainage.

### Sizes for:

ROSES  
ROSE TREES  
FRUIT TREES  
FLOWERING SHRUBS  
GREENHOUSE PLANTS  
PERENNIALS  
EVERGREENS  
SMALL TREES

### SENT POSTPAID

Cloverset Flower Farm, Dept. A  
105th & Broadway, Kansas City 5, Mo.

Please send me items checked. I enclose \_\_\_\_\_ c.

☐ SAMPLE SET, all 8 sizes and weights, 50c.

☐ FREE BOOK, "Sell Plants in Cloverset Pots for Profit."

NAME \_\_\_\_\_

FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

ZONE \_\_\_\_\_

STATE \_\_\_\_\_

# Cloverset

## Flower Farm

105th Street and Broadway Kansas City 5, Missouri

highway commissioner, who was accompanied to the meeting by members of his staff, both from the engineering and from the landscape departments, spoke briefly to the group. The mayor of Pennington gave a brief talk, pointing out that Howe Nurseries were looked upon as one of the best assets of the town. This shows the result of good public relations and good service, and being able to serve their communities is something that all nurserymen should be proud of. Immediately after the meal the executive committee met to begin planning a program for the winter meeting, which usual-

Among those attending the meeting were Valteau Curtis, of the New York State Nurserymen's Association; Howard Taylor, of Rosedale Nurseries, Eastview, N. Y., past president of A. A. N.; Dr. P. P. Pirone, plant pathologist at the New York Botanical Garden and past secretary of the N. J. A. N., and E. L. D. Seymour, horticultural editor of the American Home. A representative of the New York Times covered the meeting. "Farmer Will Peiglebeck," of station WNJR, Newark, N. J., and Phil Alampi, the radio farm director of station WJZ, New York, were also present.

## HALPERN BROS.

### NURSERY BURLAP

Squares and Rolls

and

MESH COTTON NET SQUARES

272 S. 2nd St. Market 7-3346

PHILADELPHIA 6, PA.

**MARK**  
YOUR PACKAGES  
WITH THIS STAMP

*Clearly  
Quickly*

MASSACHUSETTS  
MIN. SIZE 2 1/2" FANCY  
Most Approved Crates  
**GREENINGS**  
PACKED BY  
**R. D. MARCHE**  
Shelburne Falls, Mass.

This stamp has interchangeable type to change the size, grade and brand in a second. IT SPEEDS YOUR MARKING 200%. Can be made to meet requirements of every state. Write for prices and folder.

**RIVET-O MFG. CO.**  
78 Orchard St., Orange, Mass.

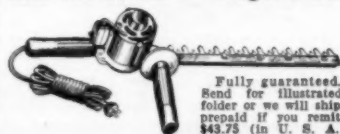
### NEW McLEAN GARDEN TRACTORS

- Sickle Bar Mowing • Lawn Mowing
  - Plowing • Tilling
- \$127.00**

UNIVERSAL MANUFACTURING CO.  
324 W. 10th St. INDIANAPOLIS 2, IND.

## The NEW ELECTRIC No. 16 HEDGE TRIMMER

Cuts Full 16 ins. — Weight 5 lbs.



Fully guaranteed.  
Send for illustrated  
folder or we will ship  
prepaid if you remit  
\$43.75 (in U. S. A.  
only).

### BARTLETT MFG. CO.

3058 E. Grand Blvd. DETROIT 2, MICH.  
Makers of COMPOUND LEVER TREE TRIMMERS

## BRUCO SUPERIOR PEAT MOSS

Top quality  
EUROPEAN and CANADIAN  
**PEAT MOSS**  
in HORTICULTURAL and  
POULTRY Grades



Full-pack bales in popular sizes

Profitable prices and prompt shipment  
everywhere in the U. S.

Write or wire for particulars on Bruco,  
European and Canadian Peat Moss.

### BRUCO Peat Moss Corp.

11 W. 42nd St. New York 18, N. Y.

## ROUGH BROTHERS

Quality Greenhouses

Write for plans and prices  
4227 SPRING GROVE AVE.  
CINCINNATI 23, OHIO

the **Scythette**  
4 TIMES FASTER than  
ORDINARY METHODS

**AUTOMATIC PORTABLE • POWER DRIVEN**

Whether operated on rocky, rough ground or underwater, the Scythette cuts Weeds, Grass, Reeds evenly, in less time and without wasted motion. Weighs only 24 lbs., features 20" cutter bar, aluminum construction, 1 1/4 hp motor that runs many hours per gallon.

**Scythette**  
The Power Scythe

WRITE FOR FREE ILLUSTRATED FOLDER

**Hoffco, inc.** RICHMOND, INDIANA

**THE ROTARY TILLER**  
*Designed*  
**for NURSERY CULTIVATION**

- High geared for fast cultivation.
- Plant guard to pick up low branches and foliage.
- Tines are a series of little hoes that will not clog or tangle.
- Gives a perfect, weed-free ground-mulched cultivation.

All Models Available

For details and price, write to **E. C. GEIGER CO.** P. O. Box 270, NORTH WALES, PA.

Manufactured by **SIMAR** SINCE 1918  
The ORIGINAL SWISS ROTARY TILLER

"The Machine  
that is Copied, But  
Never Equaled!"

**ALUMINUM GREENHOUSES**

Most modern design—greatest structural strength.  
Minimum obstructions—maximum growing space.  
Minimum foundations—maximum sunlight.  
Designed and prefabricated in England. **TEN-YEAR WARRANTY!**  
Many styles and sizes—extendable for future needs.

**NO ROT! NO RUST! NO PAINT!**

For commercial styles, ask for Folder C.  
For home styles, ask for Brochure A.

**WALDOR GREENHOUSES**

Box 51-C,

Clifton, Marblehead, Mass.

**STA-PUT**

**TAGS**  
Plain or Printed

**STA-PUT**

Will stay on plant due to special notched shoulder design. Easy to write on. Easy to put on. Special wet-strength paper.

Write for samples and prices.

**STA-PUT PLANT LABEL CO.**

BETHEL, CONN.

**AMERICAN NURSERYMAN**

**KANSAS FLOODS.**

[Continued from page 11.]

beds had standing water for ten days, and these plantings are a complete loss. Only a few thousand plants were lost here. In nearly all cases where water stood for the maximum of ten to eleven days, all stock is a complete loss.

One 42-acre field acquired last summer and with about half of the acreage planted with liners and seedling was a total loss. A sand road used as a dike was swept across the field, and now great drifts of sand are stretched across the field and deep gullies of topsoil are washed out. The most severe loss was in fields where young stock, such as coniferous evergreen grafts and cutting liners, shade tree and shrub seedlings and liners from cuttings, was lined out. Many of these were lost completely after only four days of water. Extremely high temperatures and bright sunlight following receding waters probably accounted for as much of these losses as the inundation itself.

Large-size shade trees fared well, but are showing some foliage burning and are developing a chlorotic condition. The broad-leaved evergreens withstood the water better than any other type of stock. The specimen conifers were no doubt saved by the work crews wading in knee-deep water for several days brushing the foliage with brooms to remove the silt. Where water stood for more than four days on finished evergreens, the skirts are severely damaged. Those that were flattened by the current and later straightened up do not look too good.

About half of the windbreak seedling trees and shrubs which were committed for delivery on contract in the spring, 1952, to Kansas will conservation districts were lost. All of the plantings of Russian olive, Nanking cherry, wild plum, apricot and multiflora rose. All varieties of lilac were pretty much a total kill. Only about half a crop of Chinese elm, American elm, thornless honey locust, catalpa, Osage orange and mulberry remains. However, the growth rate was seriously inhibited on these species because of the flood and previous excessive rainfall and cool temperatures. This combination will make forest tree seedlings scarce.

**Willis and Skinner Flooded.**

It was still too early for any accurate estimate of damage to the Willis Nursery Co., Ottawa, Kan., where considerable acreage was under water and the north warehouse was completely flooded.

"Our own production of seedlings



## Nurserymen!! SAVE LABOR COSTS AND TIME...with a MODEL "RE" YORK RAKE

Built especially for nursery use, the Model "RE" York Rake is the answer to your landscaping and grading problem. Designed for use with either tractor or jeep, it's a real labor-saver, reducing hand raking to a minimum.

It does a finished grading job... is ideal for spreading top soil... works close to foundations or buildings... and is easily stored.

It's ruggedly built, with teeth of heat-treated alloy spring steel rigidly attached to carbon spring steel heads. May be adjusted for operation at 2 angles, or used in straight position. All controls operated by tractor's hydraulic system.

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**YORK MODERN CORPORATION • UNADILLA, N.Y.**  
**Rake Builders for More Than 30 Years**



booked for soil conservation districts for delivery next spring have suffered heavily from excessive rains, which made planting late and cleaning and cultivating difficult," states John Pinney. "A good share of the land under water was planted to shade trees, and they did not suffer much."

All of the land owned by J. H. Skinner Co., Topeka, Kan., was under water, according to Ralph Skinner, and much stock was badly damaged. The supply of seedling planting stock was a complete loss. The condition of the main crop, which is fruit stocks, is still undetermined.

The Skinners had only one field on high ground to the north in the foothills, which alone was spared. It held ornamentals and shade trees. Water was quite deep and swift on the lower fields, and the big storage house, greenhouses and several employees' homes were badly flooded. At one time the Ralph Skinner home was flooded to four feet of water in the living room.

Fortunately the Sarber Nursery Co. is located in the southwest section of Topeka, which escaped the flood damage.

### SCS Nursery in Shambles.

Fred P. Eshbaugh, nursery manager of the large Soil Conservation Service nursery at Manhattan, reported the following in a letter of July 24:

"We are sorry to report that the Kansas river was entirely successful in trading us our 1952-53 nursery production for a few thousand sand bars, some large potholes and a lot of debris. Our physical inventory, aside from nursery stock, is intact. We have our buildings, our equipment and our hides. We are thankful to have these! With good luck, a lot of hard work and what seeds we can find this fall, we hope to be back in production again. The nursery is in shambles. We have lost our good soil and may not be able to do so

## A STARTLING ANNOUNCEMENT WILL BE MADE IN THE SEPTEMBER 15 ISSUE OF THIS MAGAZINE ABOUT A THOROUGHLY TESTED REVOLUTIONARY NEW GROWING AID!



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BROADWAY MACHINE & MANUFACTURING CO.  
SHELBYVILLE, INDIANA

well as we have done previously under more favorable circumstances."

Quite a loss, also, was the bridge over the river coming south out of Manhattan. It was only rebuilt about four years ago, mainly to serve this nursery and the Kansas State College horticultural farm.

Ralph Ricklefs, Jr., flew over the Soil Conservation Service Nursery about two days after the flood crest and said when he returned to Salina, "We flew low over the Soil Conservation Nursery and it appeared as if it were entirely wiped out. I could see no rows of stock. The whole area appeared to be a sheet of sand."

### Kansas City Nursery Unharmed.

Lawrence E. Wilson reports that Holsinger Nursery Co., like most of the other nurseries at Kansas City, Kan., is located on high ground and therefore escaped serious damage. Because of the heavy rainfall over a long period, fields were too wet to permit any cultivation, and prolific weed growth resulted. Everyone at the nursery is now employed weeding and cultivating to counteract the effects of the hot, dry weather which followed the rains.

In the Armourdale and Argentine districts of Kansas City, Mo., a continuous series of geysers sprung up where buildings had either collapsed or moved off their foundations, leaving broken water pipes. City water could not be turned off until floodwaters receded sufficiently to give access to shutoff valves. The resultant loss of water caused a decrease in the supply of water for the south part of the city, and restrictions were placed on its use.

Of vital concern to Kansas City was the threat against the municipal electricity and water station located on the Missouri river. Radio calls brought a continuous stream of contractors, dirt-moving equipment and citizens and, under the direction of United States Army engineers, dirt was moved from adjoining hills sufficient to build a dike ten feet high and almost a mile long to protect the building. Citizens then worked filling burlap bags and plugging up boils and seeps that occurred in the dike. The water rose to a height of eight feet against it, but the dike held securely, and the station was able to furnish electricity and water throughout the emergency.

ALREADY in the landscape nursery business, S. R. and Claire Zwart have opened a retail florists' shop at 165 Riverside drive. Johnson City, N. Y., under the name of the Garden Center.

## AMERICAN NURSERYMAN

Scott's **UNIQUE DRY COMPOUND**  
**Kills Crabgrass**



Second successful year coming up for this exclusive product of Scott's Lawn Research. SCUTL defeated Crabgrass on thousands of lawns last year.

**NO MIXING**—no fussing with sprayer. Apply as it comes from the box.

**EASY TO USE** from handy shaker box or with a spreader.

**SAFE**, in recommended usage will not harm lawn grasses, persons or birds.

Stop Crabgrass before it ruins your lawn. At your dealer's or write Scott's, Marysville, Ohio. Cost is nominal.  
Box—\$7.99 and \$1.95 Bag—\$5.85



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1 7/8 x 3/4 x 24 ins.

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500 or more,

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## RESTORING FOOTBALL FIELDS BY AERATION.

[Concluded from page 10.]

which cost thousands of dollars and took weeks to complete, this new process averaged four hours per field and the work was completely done within two working days, using two of our regular men. The total cost of the seeds and fertilizer was \$880.

July 9, thirty-five days after the operation was finished, the growth was so rapid that we were cutting the aprons and side line areas twice a week. The center chewed areas were rapidly filling in and required their first cutting.

Reduced to its simplest terms, aerating with a hollow tine, which removes a core of soil, appears to do three things: It makes the soil porous and the turf springy. It permits air, moisture and fertilizer to get to the roots. And it increases growth rapidly.

Combining aeration with the application of fertilizer, which is made soluble and allowed to find its way into the core perforations, the results in growth are startling. This new process seems to be a highly satisfactory way of restoring football fields or any grassed area at low cost.

Arthur J. Smith,  
Athletic Plant Foreman.

## CHEMICAL WEED CONTROL.

[Continued from page 12.]

houses present a major problem in hand weeding. Forest tree nurseries have successfully used Stoddard Solvent to reduce hand weeding in pine seedlings and other stock. This is a start. Methyl bromide fumigation of the soil and the use of flame soil sterilization are likely to prove effective in reducing this serious problem for nurserymen. It is necessary, however, for growers to realize that potting soil, straw mulches and soil on tools, shoes, etc., will bring in weed seeds to otherwise weed-free soil following sterilization. Deep cultivation also tends to bring weed seeds to the surface where they can germinate. Better sanitary measures are needed to insure best results from soil sterilization.

### Fall Weeds.

Chickweed and annual bluegrass germinate in autumn and respond best to chemical treatment at that time. The use of oats as a cover crop is sound practice and often aids in weed control as well as being of definite value in soil conservation. The majority of nurserymen will prefer

# BIG TREE MOVER

- ✓ Handles up to 12-inch trees.
- ✓ "Rocks back" for easy loading and unloading.
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- ✓ Two sizes . . . custom fitted to your truck.
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Largest Producers of Horticultural Peat in America.



**AN ALLCUT  
CUTS LIKE A  
SICKLE FROM  
the GROUND UP!**

Cuts ALL the weed stalks left by other mowers with practically NO EFFORT. Cuts ornamental grass (grass that is cut every week) on steep banks with EASE. Cemetery spend less than \$5.00 a year to buy and maintain a 24-in. ALLCUT. **DELIVERED PRICES IN U.S.A.**  
16-in.—\$27.50      24-in.—\$34.50  
BLADES 4 for \$1.40

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Per 5000 lots, **\$2.25** per 1000.

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are getting scarce. There have been  
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increases in prices.

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to have cover crops in the nursery  
rows during the winter. Even chick-  
weed and bluegrass are of value as  
cover. It is doubtful if chemical con-  
trol has a place in the nursery in  
autumn except in cleaning up old  
nursery areas of quack grass, chrys-  
anthemum weed or brush.

At present, conventional methods  
are most practical during the grow-  
ing season, especially with the ad-  
vent of highboy tractors and other  
excellent equipment permitting ade-  
quate clearance. Chemicals are use-  
ful adjuncts and likely to prove valu-  
able in March and April during the  
late dormant season. Aside from no-  
tations made above, the rates of ap-  
plication recommended by the man-  
ufacturer and indicated on the di-  
rections accompanying the product  
are adequate for nursery weed con-  
trol under normal circumstances.

## PEONY TIME.

This is a good time to circularize  
customers to sell them peonies, iris,  
poppies and Dutch bulbs, such as  
tulips, daffodils and hyacinths.

The latter part of this month or  
early in September is the time to  
divide or transplant peonies, iris and  
perennial poppies. Whether or not  
you have some of your own, you  
should know the procedure so that  
you can advise your customers. To  
divide peonies, dig the clump, wash  
off the soil and then cut the clump  
into sections, each bearing three to  
five divisions. Bearded iris should be  
divided into individual fans and re-  
planted just deep enough so that the  
roots are covered.

Unfortunately, peonies frequently  
seem to have the habit of not bloom-  
ing, which is most exasperating to  
the amateur gardener. If planted in  
too dense shade or planted too deeply  
below the crown more than two inches  
below the surface, they will not bloom  
satisfactorily. Plants that are at-  
tacked by root nematodes will not  
bloom; and usually they are spindly  
with weak stems. Suspected plants  
should be dug up, and if examination  
reveals typical root knots, the plants  
should be burned. Peonies should not  
be replanted in the same spot unless  
the soil is treated with some chemical,  
such as Dowfume MC-2, that will  
kill the nematodes.

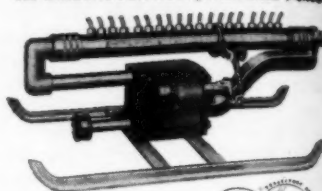
Botrytis also often attacks peonies,  
producing brown spots on the leaves,  
stems and flower buds, and sometimes  
the buds turn completely brown and  
blast. Botrytis may be prevented by  
spraying regularly with Bordeaux  
mixture and working into the soil  
around each plant about a teaspoon-  
ful of copper carbonate.

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"Rains Over All"

300 GALLONS PER HOUR, FALL LIKE RAIN



Adjusts to  
stop at  
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Covers  
50 x 60'  
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sparkling water falls as a gentle April shower.  
Covers large rectangular area of 3,250 sq. ft.  
Gets into corners, eliminates excessive overlap-  
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Nurserymen who use Ra-Pid-Gro know well that it produces:

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2. More saleable stock.
3. Far fewer replacements.
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**PROFIT NO. 2**

**SELL IT!**

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Remember, Ra-Pid-Gro furnishes immediate nourishment through foliage feeding—an important feature during the dry summer months. Ra-Pid-Gro contains all the known elements necessary to plant life. You can guarantee its results with complete Safety.

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ANALYSIS 23-21-17

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Each X indicates one transplanting. Flat—Flat-grown. Frame—Frame-grown. 25 at the 100 rate; 250 at the 1000 rate.

	Each per 100	Each per 1000		Each per 100	Each per 1000
<b>JUNIPERUS CHINENSIS PFITZERIANA.</b>			<b>TAXUS CUSPIDATA INTERMEDIA.</b>		
(Pfitzer Juniper).			(Intermedia Yew).		
6 to 8 ins., XX, flat	\$0.30	\$0.27	10 to 12 ins., XX, frame	\$0.60	\$0.55
8 to 10 ins., XX, frame	.47	.42	<b>TAXUS CUSPIDATA NANA.</b>		
10 to 12 ins., XX, frame	.52	.47	(Dwarf Japanese Yew).		
<b>JUNIPERUS SABINA VONEHRON.</b>			6 to 8 ins., XX, frame	.50	.45
(Vonehron Juniper).			8 to 10 ins., XX, frame	.55	.50
10 to 12 ins., XX, frame	.52	.47	<b>TAXUS CUSPIDATA NANA</b>		
<b>PACHYSANDRA TERMINALIS.</b>			<b>PYRAMIDALIS HILLI.</b>		
(Japanese Spurge).			(Hill Dwarf Pyramidal Yew).		
6 to 8 ins., XX, frame	.17	.12	8 to 10 ins., XX, frame	.42	.37
<b>PICEA EXCELSA.</b>			<b>TAXUS CUSPIDATA SPREADING.</b>		
(Norway Spruce).			(Spreading Japanese Yew).		
10 to 12 ins., XX, frame	.35	.30	6 to 8 ins., XX, flat	.22	.19
12 to 15 ins., XX, frame	.40	.35	8 to 10 ins., XX, frame	.49	.44
15 to 18 ins., XX, frame	.45	.40	10 to 12 ins., XX, frame	.55	.50
<b>PICEA GLAUCA CONICA.</b>			<b>TAXUS MEDIA BROWNI.</b>		
(Dwarf Alberta Spruce).			(Brown's Yew).		
4 to 6 ins., XX, flat	.30	.27	8 to 10 ins., XX, frame	.49	.44
6 to 8 ins., XX, frame	.40	.35	<b>TAXUS MEDIA HATFIELDI.</b>		
10 to 12 ins., XX, frame	1.00		(Hatfield's Yew).		
<b>PICEA GLAUCA DENSATA.</b>			8 to 10 ins., XX, frame	.49	.44
(Black Hills Spruce).			<b>TAXUS CUSPIDATA HICKSI.</b>		
8 to 10 ins., XX, frame	.27	.22	(Hicks' Yew).		
10 to 12 ins., XX, frame	.35	.30	8 to 10 ins., XX, frame	.47	.42
<b>PICEA PUNGENS.</b>			10 to 12 ins., XX, frame	.52	.47
(Colorado Spruce).			12 to 15 ins., XX, frame	.57	.52
6 to 8 ins., XX, frame	.33	.28	<b>THUJA OCCIDENTALIS.</b>		
8 to 10 ins., XX, frame	.38	.33	(American Arborvitae).		
<b>PINUS FLEXILIS.</b>			10 to 12 ins., XX, frame	.35	.30
(Limber Pine).			<b>THUJA OCCIDENTALIS PYRAMIDALIS.</b>		
8 to 10 ins., XX, frame	.37	.32	(Pyramidal Arborvitae).		
<b>PINUS MUGHUS.</b>			6 to 8 ins., XX, flat	.22	.19
(Mugho Pine).			8 to 10 ins., XX, frame	.42	.37
6 to 8 ins., XX, frame	.35	.30	10 to 12 ins., XX, frame	.47	.42
<b>PINUS NIGRA.</b>			12 to 15 ins., XX, frame	.52	.47
(Austrian Pine).			<b>THUJA OCCIDENTALIS</b>		
10 to 12 ins., XX, frame	.40	.35	<b>WOODWARDI.</b>		
<b>PINUS STROBUS.</b>			(Woodward Globe Arborvitae).		
(White Pine).			8 to 10 ins., XX, frame	.42	.37
8 to 10 ins., XX, frame	.37	.32	<b>TSUGA CANADENSIS.</b>		
<b>PSEUDOTSUGA DOUGLASI.</b>			(Canadian Hemlock).		
(Douglas Fir).			8 to 10 ins., XX, frame	.30	.25
8 to 10 ins., XX, frame	.35	.30	10 to 12 ins., XX, frame	.40	.35
10 to 12 ins., XX, frame	.40	.35	15 to 18 ins., XX, frame	.60	.55
12 to 15 ins., XX, frame	.45	.40	<b>EUONYMUS RADICANS VEGETUS.</b>		
<b>TAXUS CUSPIDATA HITI.</b>			Spring only.		
(Hiti Yew).			(Bigleaf Winter Creeper).		
8 to 10 ins., XX, frame	.50	.45	10 to 12 ins., XX, clumps	.75	

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